

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended March 31, 2024

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission file number: 001-33137

EMERGENT

EMERGENT BIOSOLUTIONS INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware

(State or Other Jurisdiction of
Incorporation or Organization)

14-1902018

(I.R.S. Employer
Identification No.)

300 Professional Drive

Gaithersburg, MD 20879

(Address and zip code of Principal Executive Offices)

(240) 631-3200

(Registrant's Telephone Number, Including Area Code)

Securities registered pursuant to Section 12(b) of the Act:

<i>Title of each class</i>	<i>Trading Symbol</i>	<i>Name of each exchange on which registered</i>
Common Stock, \$0.001 par value per share	EBS	New York Stock Exchange

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

As of April 25, 2024, the registrant had 52,401,850 shares of common stock outstanding.

Emergent BioSolutions Inc. and Subsidiaries
Form 10-Q
TABLE OF CONTENTS

	Page
	<u>Part I. Financial Information</u>
<u>Item 1.</u>	5
<u>Financial Statements</u>	
<u>Condensed Consolidated Balance Sheets—March 31, 2024 and December 31, 2023</u>	5
<u>Condensed Consolidated Statements of Operations—Three Months Ended March 31, 2024 and 2023</u>	6
<u>Condensed Consolidated Statements of Comprehensive Income (Loss)—Three Months Ended March 31, 2024 and 2023</u>	7
<u>Condensed Consolidated Statements of Cash Flows—Three Months Ended March 31, 2024 and 2023</u>	8
<u>Condensed Consolidated Statements of Changes in Stockholders' Equity—Three Months Ended March 31, 2024 and 2023</u>	9
<u>Notes to Condensed Consolidated Financial Statements</u>	10
<u>Item 2.</u>	31
<u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u>	
<u>Item 3.</u>	45
<u>Quantitative and Qualitative Disclosures About Market Risk</u>	
<u>Item 4.</u>	46
<u>Controls and Procedures</u>	
	<u>Part II. Other Information</u>
<u>Item 1.</u>	46
<u>Legal Proceedings</u>	
<u>Item 1A.</u>	47
<u>Risk Factors</u>	
<u>Item 2.</u>	50
<u>Unregistered Sales of Equity Securities and Use of Proceeds</u>	
<u>Item 3.</u>	50
<u>Defaults Upon Senior Securities</u>	
<u>Item 4.</u>	50
<u>Mine Safety Disclosures</u>	
<u>Item 5.</u>	50
<u>Other Information</u>	
<u>Item 6.</u>	50
<u>Exhibits</u>	
	52
<u>Signatures</u>	

PART I. FINANCIAL INFORMATION

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact, including statements regarding the future performance of Emergent BioSolutions Inc. or any of our businesses, our business strategy, future operations, future financial position, future revenues and earnings, our ability to achieve the objectives of our restructuring initiatives, including our future results, projected costs, prospects, plans and objectives of management, are forward-looking statements. We generally identify forward-looking statements by using words like "anticipate," "believe," "continue," "could," "estimate," "expect," "forecast," "future," "goal," "intend," "may," "plan," "position," "possible," "potential," "predict," "project," "should," "target," "will," "would," and similar expressions or variations thereof, or the negative thereof, but these terms are not the exclusive means of identifying such statements. These forward-looking statements are based on our current intentions, beliefs, assumptions and expectations regarding future events based on information that is currently available. You should realize that if underlying assumptions prove inaccurate or unknown risks or uncertainties materialize, actual results could differ materially from our expectations. You are, therefore, cautioned not to place undue reliance on any forward-looking statement contained herein. Any such forward-looking statement speaks only as of the date on which such statement is made and, except as required by law, we do not undertake any obligation to update any forward-looking statement to reflect new information, events or circumstances.

There are a number of important factors that could cause our actual results to differ materially from those indicated by such forward-looking statements, including, among others:

- the availability of U.S. government ("USG") funding for contracts related to procurement of our medical countermeasures ("MCM"), including CYFENDUS® (Anthrax Vaccine Adsorbed (AVA), Adjuvanted), previously known as AV7909, BioThrax® (Anthrax Vaccine Adsorbed) and ACAM2000® (Smallpox (Vaccinia) Vaccine, Live) among others, as well as contracts related to development of medical countermeasures;
- the availability of government funding for our other commercialized products, including Ebanga™ (ansuvimab-zykl), BAT® (Botulism Antitoxin Heptavalent (A,B,C,D,E,F,G)-(Equine)) and RSDL® (Reactive Skin Decontamination Lotion Kit);
- our ability to meet our commitments to quality and compliance in all of our manufacturing operations;
- our ability to negotiate additional USG procurement or follow-on contracts for our MCM products that have expired or will be expiring;
- the commercial availability and acceptance of over-the-counter NARCAN® (naloxone HCl) Nasal Spray;
- the impact of a generic and competitive marketplace on NARCAN® Nasal Spray and future NARCAN® Nasal Spray sales;
- our ability to perform under our contracts with the USG, including the timing of and specifications relating to deliveries;
- our ability to provide Bioservices (as defined below) for the development and/or manufacture of product and/or product candidates of our customers at required levels and on required timelines;
- the ability of our contractors and suppliers to maintain compliance with current good manufacturing practices and other regulatory obligations;
- our ability to negotiate further commitments related to the collaboration and deployment of capacity toward future commercial manufacturing under our existing Bioservices contracts;
- our ability to collect reimbursement for raw materials and payment of service fees from our Bioservices customers;
- the results of pending stockholder litigation and government investigations and their potential impact on our business;
- our ability to comply with the operating and financial covenants required by our revolving credit facility (the "Revolving Credit Facility") and our term loan facility (the "Term Loan Facility" and, together with the Revolving Credit Facility, the "Senior Secured Credit Facilities") under a senior secured credit agreement, dated October 15, 2018, between the Company and multiple lending institutions, as amended from time to time, as well as our 3.875% Senior Unsecured Notes due 2028 ("Senior Unsecured Notes");
- our ability to maintain adequate internal control over financial reporting and to prepare accurate financial statements in a timely manner;
- our ability to resolve the going concern qualification in our consolidated financial statements and otherwise successfully manage our liquidity in order to continue as a going concern;

- the procurement of our product candidates by USG entities under regulatory authorities that permit government procurement of certain medical products prior to United States Food and Drug Administration ("FDA") marketing authorization, and corresponding procurement by government entities outside the United States;
- our ability to realize the expected benefits of the sale of our travel health business to Bavarian Nordic;
- the impact of the organizational changes we announced in January 2023 and August 2023;
- the success of our commercialization, marketing and manufacturing capabilities and strategy;
- our ability to identify and acquire companies, businesses, products or product candidates that satisfy our selection criteria;
- the impact of cyber security incidents, including the risks from the unauthorized access, interruption, failure or compromise of our information systems or those of our business partners, collaborators or other third parties; and
- the accuracy of our estimates regarding future revenues, expenses, capital requirements and need for additional financing.

The foregoing sets forth many, but not all, of the factors that could cause actual results to differ from our expectations in any forward-looking statement. When evaluating our forward-looking statements, you should consider this cautionary statement along with the sections entitled "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Quantitative and Qualitative Disclosures about Market Risk" in this Quarterly Report on Form 10-Q, as well as the risks identified in our other reports filed with the SEC. New factors may emerge from time to time, and it is not possible for management to predict all such factors, nor can it assess the impact of any such factor on the business or the extent to which any factor, or combination of factors, may cause results to differ materially from those contained in any forward-looking statement.

NOTE REGARDING COMPANY REFERENCES

References in this report to "Emergent," the "Company," "we," "us," and "our" refer to Emergent BioSolutions Inc. and its consolidated subsidiaries.

NOTE REGARDING TRADE NAMES

Emergent®, BioThrax®, BaciThrax®, RSDL®, BAT®, Trobigard®, Anthrasil®, CNJ-016®, ACAM2000®, NARCAN®, CYFENDUS®, TEMBEXA® and any and all Emergent BioSolutions Inc. brands, products, services and feature names, logos and slogans are trademarks or registered trademarks of Emergent BioSolutions Inc. or its subsidiaries in the United States or other countries. All other brands, products, services and feature names or trademarks are the property of their respective owners.

ITEM 1. FINANCIAL STATEMENTS

Emergent BioSolutions Inc. and Subsidiaries
Condensed Consolidated Balance Sheets
(in millions, except per share amounts)

		March 31, 2024 (unaudited)	December 31, 2023
ASSETS			
Current assets:			
Cash and cash equivalents	\$	78.5	\$ 111.7
Restricted cash		0.5	—
Accounts receivable, net		233.5	191.0
Inventories, net		333.4	328.9
Prepaid expenses and other current assets		36.5	47.9
Total current assets		682.4	679.5
Property, plant and equipment, net		379.4	382.8
Intangible assets, net		550.4	566.6
Other assets		191.4	194.3
Total assets	\$	1,803.6	\$ 1,823.2
LIABILITIES AND STOCKHOLDERS' EQUITY			
Current liabilities:			
Accounts payable	\$	100.2	\$ 112.2
Accrued expenses		14.3	18.6
Accrued compensation		42.0	74.1
Debt, current portion		459.2	413.7
Other current liabilities		14.5	32.7
Total current liabilities		630.2	651.3
Debt, net of current portion		446.7	446.5
Deferred tax liability		34.8	47.2
Other liabilities		28.0	28.9
Total liabilities		1,139.7	1,173.9
Stockholders' equity:			
Preferred stock, \$ 0.001 par value per share; 15.0 shares authorized, no shares issued or outstanding		—	—
Common stock, \$ 0.001 par value per share; 200.0 shares authorized, 58.0 and 57.8 shares issued; 52.4 and 52.2 shares outstanding, respectively		0.1	0.1
Treasury stock, at cost, 5.6 and 5.6 common shares, respectively		(227.7)	(227.7)
Additional paid-in capital		909.8	904.4
Accumulated other comprehensive loss, net		(5.5)	(5.7)
Accumulated deficit		(12.8)	(21.8)
Total stockholders' equity		663.9	649.3
Total liabilities and stockholders' equity	\$	1,803.6	\$ 1,823.2

See accompanying notes to condensed consolidated financial statements.

Emergent BioSolutions Inc. and Subsidiaries
Condensed Consolidated Statements of Operations
 (unaudited, in millions, except per share amounts)

	Three Months Ended March 31,	
	2024	2023
Revenues:		
Commercial Product sales	\$ 118.5	\$ 106.2
MCM Product sales	155.4	37.2
Total Product sales, net	273.9	143.4
Bioservices:		
Services	18.3	12.6
Leases	0.2	1.8
Total Bioservices revenues	18.5	14.4
Contracts and grants	8.0	6.5
Total revenues	300.4	164.3
Operating expenses:		
Cost of Commercial Product sales	52.1	45.8
Cost of MCM Product sales	62.2	55.4
Cost of Bioservices	30.3	51.7
Research and development	15.1	40.7
Selling, general and administrative	84.7	101.3
Amortization of intangible assets	16.2	17.0
Total operating expenses	260.6	311.9
Income (loss) from operations	39.8	(147.6)
Other income (expense):		
Interest expense	(24.3)	(17.9)
Other, net	(3.4)	4.9
Total other income (expense), net	(27.7)	(13.0)
Income (loss) before income taxes	12.1	(160.6)
Income tax provision	3.1	25.6
Net income (loss)	<u>\$ 9.0</u>	<u>\$ (186.2)</u>
Net income (loss) per common share		
Basic	\$ 0.17	\$ (3.71)
Diluted	\$ 0.17	\$ (3.71)
Weighted average shares outstanding		
Basic	52.2	50.2
Diluted	52.2	50.2

See accompanying notes to condensed consolidated financial statements.

Emergent BioSolutions Inc. and Subsidiaries
Condensed Consolidated Statements of Comprehensive Income (Loss)
 (unaudited, in millions)

	Three Months Ended March 31,	
	2024	2023
Net income (loss)	\$ 9.0	\$ (186.2)
Other comprehensive income (loss), net of tax:		
Foreign currency translation adjustments, net	0.2	(0.1)
Unrealized losses on hedging activities	—	(4.4)
Reclassification adjustment for gains on hedging activities	—	2.4
Total other comprehensive income (loss), net of tax	0.2	(2.1)
Comprehensive income (loss), net of tax	\$ 9.2	\$ (188.3)

See accompanying notes to condensed consolidated financial statements.

Emergent BioSolutions Inc. and Subsidiaries
Condensed Consolidated Statements of Cash Flows
(unaudited, in millions)

	Three Months Ended March 31,		
	2024	2023	
Operating Activities			
Net income (loss)	\$ 9.0	\$ (186.2)	
Adjustments to reconcile net income (loss) to net cash used in operating activities:			
Share-based compensation expense	5.9	6.8	
Depreciation and amortization	27.9	34.6	
Change in fair value of contingent obligations, net	0.5	0.3	
Amortization of deferred financing costs	6.9	1.0	
Deferred income taxes	(12.2)	(4.7)	
Other	(3.1)	0.3	
Changes in operating assets and liabilities:			
Accounts receivable	(50.0)	2.6	
Inventories	(4.5)	(30.7)	
Prepaid expenses and other assets	(6.0)	(4.5)	
Accounts payable	(2.4)	31.0	
Accrued expenses and other liabilities	1.1	(14.7)	
Long-term incentive plan accrual	1.2	—	
Accrued compensation	(33.3)	(24.3)	
Income taxes receivable and payable, net	16.1	12.9	
Contract liabilities	(19.7)	(8.4)	
Net cash used in operating activities	(62.6)	(184.0)	
Investing Activities			
Purchases of property, plant and equipment	(10.8)	(15.1)	
Net cash used in investing activities	(10.8)	(15.1)	
Financing Activities			
Proceeds from revolving credit facility	50.0	—	
Principal payments on revolving credit facility	(5.0)	—	
Principal payments on term loan facility	(3.9)	(8.4)	
Taxes paid for share-based compensation activity	(0.4)	(2.1)	
Net cash provided by (used in) financing activities:	40.7	(10.5)	
Effect of exchange rate changes on cash, cash equivalents and restricted cash	—	(0.2)	
Net change in cash, cash equivalents and restricted cash	(32.7)	(209.8)	
Add: Net change in cash, classified within current assets held for sale	—	(2.6)	
Cash, cash equivalents and restricted cash, beginning of period	111.7	642.6	
Cash, cash equivalents and restricted cash, end of period	\$ 79.0	\$ 430.2	
Supplemental cash flow disclosures:			
Cash paid for interest	\$ 21.5	\$ 21.6	
Cash paid for income taxes	\$ 12.4	\$ 16.7	
Non-cash investing and financing activities:			
Purchases of property, plant and equipment unpaid at period end	\$ 3.3	\$ 7.8	
Gain on extinguishment of debt	\$ 0.3	\$ —	
Reconciliation of cash and cash equivalents and restricted cash:			
Cash and cash equivalents	\$ 78.5	\$ 430.2	
Restricted cash	0.5	—	
Total	\$ 79.0	\$ 430.2	

See accompanying notes to condensed consolidated financial statements.

Emergent BioSolutions Inc. and Subsidiaries
Condensed Consolidated Statements of Changes in Stockholders' Equity
(unaudited, in millions)

	\$ 0.001 Par Value						Accumulated Other Comprehensive Loss	Accumulated Deficit	Total Stockholders' Equity
	Common Stock		Treasury Stock		Additional Paid-In Capital				
	Shares	Amount	Shares	Amount					
Balance at December 31, 2023	57.8	\$ 0.1	(5.6)	\$ (227.7)	904.4	\$ (5.7)	\$ (21.8)	\$ 649.3	
Net income	—	\$ —	—	\$ —	—	\$ —	\$ 9.0	\$ 9.0	
Share-based compensation activity	0.2	—	—	—	5.4	—	—	—	5.4
Other comprehensive income, net of tax	—	—	—	—	—	0.2	—	—	0.2
Balance at March 31, 2024	58.0	\$ 0.1	(5.6)	\$ (227.7)	909.8	\$ (5.5)	\$ (12.8)	\$ 663.9	

	\$ 0.001 Par Value						Accumulated Other Comprehensive Income	Retained Earnings	Total Stockholders' Equity
	Common Stock		Treasury Stock		Additional Paid-In Capital				
	Shares	Amount	Shares	Amount					
Balance at December 31, 2022	55.7	\$ 0.1	(5.6)	\$ (227.7)	873.5	\$ 3.1	\$ 738.7	\$ 1,387.7	
Net loss	—	\$ —	—	\$ —	—	\$ —	\$ (186.2)	\$ (186.2)	
Share-based compensation activity	0.3	—	—	—	4.7	—	—	—	4.7
Other comprehensive loss, net of tax	—	—	—	—	—	(2.1)	—	—	(2.1)
Balance at March 31, 2023	56.0	\$ 0.1	(5.6)	\$ (227.7)	878.2	\$ 1.0	\$ 552.5	\$ 1,204.1	

See accompanying notes to condensed consolidated financial statements.

EMERGENT BIOSOLUTIONS INC. AND SUBSIDIARIES
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(unaudited, dollar and share amounts in tables in millions, except per share data)

1. Nature of the business and organization

Organization and business

Emergent BioSolutions Inc. ("Emergent," the "Company," "we," "us," and "our") is a global life sciences company focused on providing innovative preparedness and response solutions addressing accidental, deliberate, and naturally occurring Public Health Threats ("PHTs"). The Company's solutions include a product portfolio, a product development portfolio, and a contract development and manufacturing ("CDMO") services portfolio.

The Company is focused on the following four PHT categories: chemical, biological, radiological, nuclear and explosives ("CBRNE"); emerging infectious diseases ("EID"); emerging health crises; and acute, emergency and community care. The Company has a product portfolio of 12 products (vaccines, therapeutics, and drug-device combination products). The revenues generated by the products comprise a substantial portion of the Company's revenue. The Company structures its business with a focus on markets and customers. As such, the key components of the business structure include the following four product and service categories: NARCAN® commercial product, Anthrax - Medical Countermeasures ("MCM") Products, Smallpox - MCM products and Emergent Bioservices (CDMO) ("Bioservices").

The Company's business is organized in three reportable operating segments: (1) a Commercial Products segment consisting of NARCAN® Nasal Spray and other commercial products, which were sold as part of our travel health business in the second quarter of 2023 (see Note 3, "Divestiture" for more information on the sale of the travel health business); (2) a MCM Products segment consisting of our Anthrax - MCM, Smallpox - MCM and Other Products, described below and (3) a Services segment consisting of our Bioservices offerings (see Note 16, "Segment information" for more information on our reportable segments).

The Company's products and services include:

Commercial Products Segment:

NARCAN®

- NARCAN® (naloxone HCl) Nasal Spray is an intranasal formulation of naloxone approved by the United States Food and Drug Administration ("FDA") (including in over-the-counter form) and Health Canada for the emergency treatment of known or suspected opioid overdose as manifested by respiratory and/or central nervous system depression.

Sale of Travel Health Business

On May 15, 2023, the Company completed the sale of its Commercial Products segment's travel health business, including rights to Vivotif®, the licensed typhoid vaccine; Vaxchora®, the licensed cholera vaccine; the development-stage chikungunya vaccine candidate CHIKV VLP; the Company's manufacturing site in Bern, Switzerland; and certain of its development facilities in San Diego, California. For additional information, refer to Note 3, "Divestiture".

MCM Products Segment:

Anthrax - MCM Products

- Anthrasil® (Anthrax Immune Globulin Intravenous (human)), the only polyclonal antibody therapeutic licensed by the FDA and Health Canada for the treatment of inhalational anthrax in combination with appropriate antibacterial drugs;
- BioThrax® (Anthrax Vaccine Adsorbed), the only vaccine licensed by the FDA for the general use prophylaxis and post-exposure prophylaxis of anthrax disease;
- CYFENDUS® (Anthrax vaccine adsorbed (AVA), adjuvanted), previously known as AV7909, which was recently approved by the FDA for post-exposure prophylaxis of disease following suspected or confirmed exposure to *Bacillus anthracis* in persons 18 through 65 years of age when administered in conjunction with recommended antibacterial drugs. CYFENDUS® is procured by certain authorized government buyers for their use; and
- Raxibacumab injection, the first fully human monoclonal antibody therapeutic licensed by the FDA for the treatment and prophylaxis of inhalational anthrax;

Smallpox - MCM Products

- ACAM2000®, (Smallpox (Vaccinia) Vaccine, Live), the only single-dose smallpox vaccine licensed by the FDA for active immunization against smallpox disease for persons determined to be at high risk for smallpox infection;
- CNJ-016® (Vaccinia Immune Globulin Intravenous (Human) (VIGIV)), the only polyclonal antibody therapeutic licensed by the FDA and Health Canada to address certain complications from smallpox vaccination; and
- TEMBEXA®, an oral antiviral formulated as 100 mg tablets and 10 mg/mL oral suspension dosed once weekly for two weeks which has been approved by the FDA for the treatment of smallpox disease caused by variola virus in adult and pediatric patients, including neonates.

Other Products

- BAT® (Botulism Antitoxin Heptavalent (A,B,C,D,E,F,G)-(Equine)), the only heptavalent antitoxin licensed by the FDA and Health Canada for the treatment of symptomatic botulism;
- Ebanga™ (ansuvimab-zykl), a monoclonal antibody with antiviral activity provided through a single IV infusion for the treatment of Ebola. Under the terms of a collaboration with Ridgeback Biotherapeutics ("Ridgeback"), Emergent will be responsible for the manufacturing, sale, and distribution of Ebanga™ in the U.S. and Canada, and Ridgeback will serve as the global access partner for Ebanga™;
- RSDL® (Reactive Skin Decontamination Lotion Kit), the only medical device cleared by the FDA that is intended to remove or neutralize chemical warfare agents from the skin, including: tabun, sarin, soman, cyclohexyl sarin, VR, VX, mustard gas and T-2 toxin; and
- Trobigard® atropine sulfate, obidoxime chloride auto-injector, a combination drug-device auto-injector procured product candidate that contains atropine sulfate and obidoxime chloride. Trobigard® was approved in Belgium in 2021 but has not been approved by the FDA. Trobigard® is procured by certain authorized government buyers under special circumstances for potential use as a nerve agent countermeasure outside of the U.S. On April 2, 2024, Emergent submitted its revocation of the Market Authorization for the Trobigard Auto-Injector to the Belgium Federal Agency for Medicines and Health Products ("FAMHP"). The FAHMP subsequently acknowledged and confirmed the revocation date as being April 2, 2024.

Services Segment:

Bioservices - CDMO

The Company's services revenue consists of distinct but interrelated bioservices: drug substance manufacturing; drug product manufacturing (also referred to as "fill/finish" services) and packaging; development services including technology transfer, process and analytical development services; and, when necessary, suite reservation obligations. These services, which the Company refers to as "molecule-to-market" offerings, employ diverse technology platforms (mammalian, microbial, viral and plasma) across a network of nine geographically distinct development and manufacturing sites operated by the Company for its internal products and pipeline candidates and third-party bioservices. The Company services both clinical-stage and commercial-stage projects for a variety of third-party customers, including government agencies, innovative pharmaceutical companies, and non-government organizations. In August 2023, the Company initiated an organizational restructuring plan (the "August 2023 Plan") which included actions to reduce investment in and de-emphasize focus on its Bioservices business.

2. Summary of significant accounting policies

Basis of presentation and consolidation

The accompanying unaudited condensed consolidated financial statements include the accounts of Emergent and its wholly owned subsidiaries. All significant intercompany accounts and transactions have been eliminated in consolidation. The unaudited condensed consolidated financial statements included herein have been prepared in accordance with U.S. generally accepted accounting principles ("GAAP") for interim financial information and in accordance with the instructions to Form 10-Q and Article 10 of Regulation S-X issued by the Securities and Exchange Commission ("SEC"). Certain information and footnote disclosures normally included in consolidated financial statements prepared in accordance with GAAP have been condensed or omitted pursuant to such rules and regulations. These condensed consolidated financial statements should be read in conjunction with the audited consolidated

financial statements and notes thereto contained in the Company's Annual Report on Form 10-K for the year ended December 31, 2023, as filed with the SEC on March 8, 2024.

All adjustments contained in the accompanying unaudited condensed consolidated financial statements are of a normal recurring nature and are necessary to present fairly the financial position of the Company as of March 31, 2024. Interim results are not necessarily indicative of results that may be expected for any other interim period or for an entire year.

Going concern

As of March 31, 2024, there was \$ 264.2 million outstanding on the Company's senior revolving credit facility ("Revolving Credit Facility") and \$ 194.2 million on the senior term loan facility ("Term Loan Facility" and together with the Revolving Credit Facility, the "Senior Secured Credit Facilities") that mature in May 2025 and the Senior Credit Facilities were subject to a forbearance agreement as described below, with respect to the Company's noncompliance with certain operational and financial covenants. As of March 31, 2024, the Company had \$ 78.5 million in cash and cash equivalents. As a result of these factors, the Company determined that there is substantial doubt about the Company's ability to continue as a going concern within one year after the date that the financial statements are issued. The evaluation considered the potential mitigating effects of management's plans that have not been fully implemented. Management has evaluated the mitigating effects of its plans to determine if it is probable that (1) the plans will be effectively implemented within one year after the date the financial statements are issued, and (2) when implemented, the plans will mitigate the relevant conditions or events that raise substantial doubt about the entity's ability to continue as a going concern. Management's plans include (A) further amending the Senior Secured Credit Facilities, and (B) improving operating performance, reducing working capital and the potential of the sale of assets to pay down the Senior Secured Credit Facilities before they become due. As neither plan is in the complete control of management, neither is probable of occurring. In this regard, management may not be able to further amend the Senior Secured Credit Facilities or find a buyer for the assets it is willing to divest and may not be able to close on any asset sale for which management is able to reach an agreement with a buyer. As a result, the Company may be unable to meet its obligations as they become due. In addition, any asset sales that are completed could have potential negative impacts on the Company's future operating cash flows and profitability.

Debt Covenants

The Senior Secured Credit Facilities mature in May 2025, and provide for (1) revolving credit commitments, (2) a term loan, and (3) the issuance of commercial letters of credit. As of March 31, 2024, the Company had \$ 458.4 million outstanding under the Senior Secured Credit Facilities. As of March 31, 2024, the Company was not in compliance with the minimum consolidated EBITDA covenant under the Senior Secured Credit Facilities and did not expect to satisfy a covenant requiring it to raise not less than \$ 75.0 million through issuance of equity and/or unsecured indebtedness by April 30, 2024. In addition, the Company was required to deliver audited annual financial statements without a "going concern" explanatory paragraph with respect to its financial statements for the year ended December 31, 2023, which was not achieved. However, on February 29, 2024, the requisite lenders agreed to enter into a Forbearance Agreement and Sixth Amendment to Amended and Restated Credit Agreement (the "Forbearance Agreement and Amendment") with the Company, which included a limited waiver of certain events of default, including those that resulted from (a) any violation of the financial covenants set forth in the Senior Secured Credit Facilities with respect to the fiscal quarter ending December 31, 2023 and the fiscal quarter ending March 31, 2024 and (b) the going concern explanatory paragraph contained in the audited financial statements for the year ended December 31, 2023. This forbearance period (the "Forbearance Period") expired on April 30, 2024.

On April 29, 2024, the requisite lenders agreed to enter into a Consent, Waiver and Seventh Amendment to the Amended and Restated Credit Agreement (the "Seventh Amendment") with the Company. The Seventh Amendment, among other things: (a) reduces available commitments under the Revolving Credit Facility to \$ 270.0 million through July 30, 2024, to \$ 225.0 million from July 31, 2024 through October 30, 2024, and to \$ 200.0 million on October 31, 2024 and thereafter; (b) amends the interest rate benchmark in the definition of Applicable Margin from (i) 5.00 % per annum to 7.00 % per annum with respect to Base Rate Loans and (ii) 6.50 % per annum to 8.50 % per annum with respect to SOFR Loans, RFR Loans and Eurocurrency Rate Loans; and (c) requires the Company to raise equity or unsecured indebtedness of at least \$ 85.0 million by July 31, 2024 (or such later date on or before September 29, 2024 as agreed to by the Administrative Agent), provided that such requirement will be reduced by the aggregate net cash proceeds received from certain dispositions that are applied to reduce amounts outstanding under the Revolving Credit Facility. There is no guarantee the Company will be able to meet the capital raise requirement by the stated deadline.

In addition, pursuant to the Seventh Amendment, the Company is obligated to apply 100 % of the aggregate net cash proceeds received from certain dispositions to the prepayment of amounts outstanding under the Revolving Credit Facility, except where such proceeds exceed \$ 85,000,000 , in which case such mandatory prepayment of the Revolving Credit Facility will no longer be required. Mandatory prepayment of the Term Loan Facility will not be required unless and until the aggregate net proceeds from such

dispositions exceed \$ 85,000,000 , at which point 100 % of such proceeds must be used toward repayment of amounts outstanding under the Term Loan Facility.

Under the Seventh Amendment, the Company is also subject to (a) a monthly minimum consolidated EBITDA covenant through May 15, 2025 and a monthly maximum capital expenditures covenant through March 31, 2025, (b) a minimum liquidity requirement and (c) additional financial statement reporting and business plan forecast obligations. In connection with the entry into the Seventh Amendment, the Company paid an amendment fee of an aggregate amount equal to 0.5 % of the total credit exposure as of the Seventh Amendment effective date and will be required to pay an additional amendment fee of 1.0 % of total credit exposure at December 1, 2024 and each month thereafter. The Senior Secured Credit Facilities and the Company's other debt facilities are described in more detail below in Note 9, "Debt."

If the Company defaults under the Senior Secured Credit Facilities, the lenders would have the right to accelerate the repayment of borrowings under the Senior Secured Credit Facilities, which would result in a cross-default of the Company's obligations under the 3.875 % Senior Unsecured Notes due 2028 (the "Senior Unsecured Notes"). If the Company were unable to obtain additional waivers or forbearance of such covenants or defaults, to successfully renegotiate the terms of the Senior Secured Credit Facilities, or to cure the potential covenant breach or default, and the lenders enforced one or more of their rights upon default and/or the default resulted in a cross-default under the Senior Unsecured Notes, the Company would be unable to meet its obligations under those agreements and would likely be forced into insolvency proceedings.

Based on the facts and circumstances described above, there can be no assurance that the Company would be able to comply with its debt covenants in the future. As a result, the Company continues to evaluate a number of factors related to its ability to continue as a going concern, including its ability to comply with the terms and operating and financial covenants required by the Senior Secured Credit Facilities, its ability to satisfy the capital raise requirement required by the Senior Secured Credit Facilities, other market conditions, economic conditions, particularly in the pharmaceutical and biotechnology industry, and disruptions or volatility caused by factors such as regional conflicts, inflation, and supply chain disruptions. The Company has engaged legal and financial advisors to assist with a comprehensive review of alternatives to enhance its capital structure, which may include taking steps to cure any potential defaults or seeking forbearance, waivers, further cost reductions, asset sales, restructurings or other alternatives to avoid an event of default.

Significant accounting policies

During the three months ended March 31, 2024, there have been no significant changes to the Company's summary of significant accounting policies contained in the Company's Annual Report on Form 10-K for the year ended December 31, 2023, as filed with the SEC that have materially impacted the presentation of the Company's financial statements.

Fair value measurements

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability, an exit price, in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value, includes:

Level 1 —	Observable inputs for identical assets or liabilities such as quoted prices in active markets;
Level 2 —	Inputs other than quoted prices in active markets that are either directly or indirectly observable; and
Level 3 —	Unobservable inputs in which little or no market data exists, which are therefore developed by the Company using estimates and assumptions that reflect those that a market participant would use.

On a recurring basis, the Company measures and records money market funds (Level 1), interest-rate swap arrangements and time deposits (Level 2) and contingent purchase consideration (Level 3) using fair value measurements in the accompanying financial statements. The carrying amounts of the Company's short-term financial instruments, which include cash and cash equivalents, accounts receivable and accounts payable approximate their fair values due to their short maturities. The carrying amounts of the Company's long-term variable interest rate debt arrangements (Level 2) approximate their fair values.

New accounting standards

From time to time, new accounting pronouncements are issued by the Financial Accounting Standards Board that the Company adopts as of the pronouncement's specified effective date.

Accounting Standards Not Yet Adopted

In November 2023, the Financial Accounting Standards board ("FASB") issued Accounting Standards Update ("ASU") 2023-07 ("ASU 2023-07"), *Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures*, which improves reportable segment disclosure requirements, on an annual and interim basis, primarily through enhanced disclosures about significant segment expenses. Additionally, it requires a public entity to disclose the title and position of the Chief Operating Decision Maker ("CODM"). The ASU does not change how a public entity identifies its operating segments, aggregates them, or applies the quantitative thresholds to determine its reportable segments. The amendments in the ASU are effective for annual periods beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024, although early adoption is permitted. The Company is in the process of evaluating the impact of this new guidance on its consolidated financial statements.

In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): *Improvements to Income Tax Disclosures*, which requires a public business entity to disclose, on an annual basis, a tabular rate reconciliation using both percentages and currency amounts, broken out into specified categories with certain reconciling items further broken out by nature and jurisdiction to the extent those items exceed a specified threshold. In addition, all entities are required to disclose income taxes paid, net of refunds received disaggregated by federal, state/local, and foreign and by jurisdiction if the amount is at least 5% of total income tax payments, net of refunds received. The amendments in the ASU are effective for public business entities for annual periods beginning after December 15, 2024, although early adoption is permitted. The Company is in the process of evaluating the impact of this new guidance on its consolidated financial statements.

3. Divestiture

On May 15, 2023, pursuant to the Purchase and Sale Agreement (the "Purchase and Sale Agreement"), by and between the Company, through its wholly owned subsidiaries Emergent International Inc. and Emergent Travel Health Inc., and Bavarian Nordic ("Bavarian Nordic"), the Company completed the sale of the Company's travel health business, including rights to Vivotif®, the licensed typhoid vaccine; Vaxchora®, the licensed cholera vaccine; the development-stage chikungunya vaccine candidate CHIKV VLP; the Company's manufacturing site in Bern, Switzerland; and certain of its development facilities in San Diego, California.

At the closing, Bavarian Nordic paid a cash purchase price of \$ 270.2 million, exclusive of customary closing adjustments for cash, indebtedness, working capital and transaction expenses of the business at closing. Bavarian Nordic may also be required to pay milestone payments of up to \$ 80.0 million related to the development of CHIKV VLP and receipt of marketing approval and authorization in the U.S. and Europe, and earn-out payments of up to \$ 30.0 million based on aggregate net sales of Vaxchora® and Vivotif® in calendar year 2026.

As a result of the divestiture, the Company recognized a pre-tax gain of \$ 74.2 million, net of transaction costs of \$ 4.0 million recorded within "Gain on sale of business" on the Condensed Consolidated Statements of Operations during 2023.

In connection with the divestiture, the Company entered into a Transition Services Agreement ("TSA") with Bavarian Nordic to help support its ongoing operations. Under the TSA, the Company provides certain transition services to Bavarian Nordic, including information technology, finance and enterprise resource planning, research and development, human resources, employee benefits and other limited services. Income from performing services under the TSA is recorded within "Other, net" on the Condensed Consolidated Statements of Operations and was \$ 0.4 million for three months ended March 31, 2024.

4. **Restructuring charges**

January 2023 Organizational Restructuring Plan

In January 2023, the Company initiated an organizational restructuring plan (the "January 2023 Plan") intended to reduce operating costs, improve operating margins, and continue advancing the Company's ongoing commitment to profitable growth. As part of the January 2023 Plan, the Company reduced its workforce by approximately 125 employees. The charges related to the January 2023 plan consist primarily of employee transition, severance payment and employee benefit charges. The cumulative amount of restructuring charge related to the January 2023 Plan since inception is \$ 9.3 million. All activities related to the January 2023 Plan were substantially completed during the first quarter of 2023. Restructuring costs are recognized as an operating expense within the Condensed Consolidated Statement of Operations and are classified based on the Company's classification policy for each category of operating expense.

August 2023 Organizational Restructuring Plan

In August 2023, the Company initiated the August 2023 Plan intended to strengthen its core business and financial position by reducing investment in and de-emphasizing focus on its CDMO services business for future growth. As part of the August 2023 Plan, the Company reduced its workforce by approximately 400 employees. The charges related to the August 2023 Plan consist primarily of employee transition, severance payment and employee benefit charges. The cumulative amount of restructuring charge related to the August 2023 Plan since inception is \$ 19.5 million. All activities related to the August 2023 Plan were substantially completed during the third quarter of 2023. Restructuring costs are recognized as an operating expense within the Condensed Consolidated Statement of Operations and are classified based on the Company's classification policy for each category of operating expense.

The following table presents the total restructuring costs related to the January 2023 Plan and August 2023 Plan by reportable segment as well as amounts included within unallocated corporate selling general and administrative ("SG&A") expense and research and development ("R&D") expense:

	Three Months Ended March 31,	
	2024	2023
Commercial Products	\$ —	\$ —
MCM Products	(0.1)	2.0
Services	(0.2)	—
Total restructuring costs by segment	(0.3)	2.0
SG&A	(0.1)	5.0
R&D	(0.1)	2.7
Total restructuring costs	\$ (0.5)	\$ 9.7

The following table presents the total restructuring costs related to the January 2023 Plan and August 2023 Plan by function:

	Three Months Ended March 31,	
	2024	2023
Employee transition	\$ —	\$ 0.3
Severance payments	(0.5)	8.7
Employee benefits	—	0.7
Total restructuring costs	\$ (0.5)	\$ 9.7

The following tables provide the components of and changes in the Company's restructuring accrual for the January 2023 Plan during the three months ended March 31, 2024 and 2023:

	Employee Transition	Severance Payments	Employee Benefits	Total
Balance at December 31, 2023	\$ —	\$ 1.4	\$ —	\$ 1.4
Cash payments	—	(1.3)	—	(1.3)
Balance at March 31, 2024	\$ —	\$ 0.1	\$ —	\$ 0.1

	Employee Transition	Severance Payments	Employee Benefits	Total
Balance at December 31, 2022	\$ —	\$ —	\$ —	\$ —
Accruals	0.3	8.7	0.7	9.7
Cash payments	(0.2)	(2.0)	(0.1)	(2.3)
Balance at March 31, 2023	\$ 0.1	\$ 6.7	\$ 0.6	\$ 7.4

The following table provides the components of and changes in the Company's restructuring accrual for the August 2023 Plan during the three months ended March 31, 2024:

	Employee Transition	Severance Payments	Employee Benefits	Total
Balance at December 31, 2023	\$ —	\$ 5.3	\$ 0.1	\$ 5.4
Accruals	—	(0.5)	—	(0.5)
Cash payments	—	(3.6)	—	(3.6)
Balance at March 31, 2024	\$ —	\$ 1.2	\$ 0.1	\$ 1.3

5. Inventories, net

Inventories, net consisted of the following:

	March 31, 2024	December 31, 2023
Raw materials and supplies	\$ 130.5	\$ 128.7
Work-in-process	126.3	113.3
Finished goods	76.6	86.9
Total inventories, net	\$ 333.4	\$ 328.9

Inventories, net is stated at the lower of cost or net realizable value.

6. Property, plant and equipment, net

Property, plant and equipment, net consisted of the following:

	March 31, 2024	December 31, 2023
Land and improvements	\$ 30.0	\$ 30.0
Buildings, building improvements and leasehold improvements	229.9	229.9
Furniture and equipment	435.6	433.6
Software	67.9	64.0
Construction-in-progress	38.6	36.7
Property, plant and equipment, gross	\$ 802.0	\$ 794.2
Less: Accumulated depreciation and amortization	(422.6)	(411.4)
Total property, plant and equipment, net	\$ 379.4	\$ 382.8

As of March 31, 2024 and December 31, 2023, construction-in-progress primarily included costs incurred to advance the Company's MCM Product capabilities.

Property, plant and equipment, net is stated at cost, less accumulated depreciation and amortization.

7. Intangible assets and goodwill

The Company's finite-lived intangible assets consist of products acquired via business combinations or asset acquisitions. The following table summarizes the Company's finite-lived intangible assets:

	Weighted Average Useful Life in Years	March 31, 2024			December 31, 2023		
		Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
Products	13.5	\$ 855.4	\$ 305.0	\$ 550.4	\$ 855.4	\$ 288.8	\$ 566.6
Customer relationships	0.0	28.6	28.6	—	28.6	28.6	—
CDMO	0.0	5.5	5.5	—	5.5	5.5	—
Total intangible assets		\$ 889.5	\$ 339.1	\$ 550.4	\$ 889.5	\$ 322.9	\$ 566.6

Amortization expense associated with the Company's finite-lived intangible assets was recorded as follows:

	Three Months Ended March 31,	
	2024	2023
Amortization expense	\$ 16.2	\$ 17.0

As of March 31, 2024 and December 31, 2023, the Company had no remaining goodwill balance on the Condensed Consolidated Balance Sheets due to impairment charges recorded during the third quarter of 2023.

8. Fair value measurements

The table below presents information about the Company's assets and liabilities that are regularly measured and carried at fair value and indicates the level within the fair value hierarchy of the valuation techniques the Company utilized to determine fair value:

	March 31, 2024				December 31, 2023			
	Total	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3
Assets:								
Money market accounts	\$ 10.7	\$ 10.7	\$ —	\$ —	\$ 40.5	\$ 40.5	\$ —	\$ —
Total	\$ 10.7	\$ 10.7	\$ —	\$ —	\$ 40.5	\$ 40.5	\$ —	\$ —
Liabilities:								
Contingent consideration	\$ 5.5	\$ —	\$ —	\$ 5.5	\$ 5.6	\$ —	\$ —	\$ 5.6
Total	\$ 5.5	\$ —	\$ —	\$ 5.5	\$ 5.6	\$ —	\$ —	\$ 5.6

Contingent consideration

Contingent consideration payments in an asset acquisition not required to be accounted for as derivatives are recognized when the contingency is resolved, and the consideration is paid or becomes payable. Contingent consideration liabilities associated with business combinations are measured at fair value. These liabilities represent an obligation of the Company to transfer additional assets to the selling shareholders and owners if future events occur or conditions are met. These liabilities associated with business combinations are measured at fair value at inception and at each subsequent reporting date. The changes in the fair value are primarily due to the expected amount and timing of future net sales, which are inputs that have no observable market. Any changes in fair value for the contingent consideration liabilities related to the Company's products are classified on the Company's Condensed Consolidated Statements of Operations as "Cost of product sales."

The table below is a reconciliation of the beginning and ending balance of the Company's Level 3 contingent consideration liability:

	Contingent Consideration
Balance at December 31, 2023	\$ 5.6
Change in fair value	0.5
Settlements	(0.6)
Balance at March 31, 2024	<u><u>\$ 5.5</u></u>
	Contingent Consideration
Balance at December 31, 2022	\$ 8.0
Change in fair value	0.3
Settlements	(0.7)
Balance at March 31, 2023	<u><u>\$ 7.6</u></u>

As of March 31, 2024 and December 31, 2023, the current portion of the contingent consideration liability was \$ 2.7 million and \$ 2.7 million, respectively, and was included in "Other current liabilities" on the Condensed Consolidated Balance Sheets. The non-current portion of the contingent consideration liability is included in "Other liabilities" on the Condensed Consolidated Balance Sheets.

The recurring Level 3 fair value measurement for the Company's contingent consideration liability used the following significant unobservable inputs:

Contingent Consideration Liability	Fair Value as of March 31, 2024	Valuation Technique	Unobservable Input	Range
Royalty based	\$ 5.5 million	Discounted cash flow	Discount rate Probability of payment Projected year of payment	9.7 % 25 % - 50 % 2024 - 2028

Non-variable rate debt

As of March 31, 2024 and December 31, 2023, the fair value of the Company's Senior Unsecured Notes was \$ 191.3 million and \$ 184.3 million, respectively. The fair value was determined through market sources, which are Level 2 inputs and directly observable. The carrying amounts of the Company's other long-term variable interest rate debt arrangements approximate their fair values (see Note 9, "Debt").

9. Debt

The table below presents the components of the Company's debt:

		March 31, 2024	December 31, 2023
Senior secured credit agreement - Term loan due 2025	\$	194.2	\$ 198.2
Senior secured credit agreement - Revolver loan due 2025		264.2	219.2
3.875 % Senior Unsecured Notes due 2028		450.0	450.0
Other		0.8	1.0
Total debt	\$	909.2	\$ 868.4
Current portion of long-term debt, net of debt issuance costs		(459.2)	(413.7)
Unamortized debt issuance costs		(3.3)	(8.2)
Non-current portion of debt	\$	446.7	\$ 446.5

During the year ended December 31, 2023, the Company reclassified the debt issuance costs associated with the revolver loan to a contra account to directly offset the loan balance in "Other current liabilities" on the Company's Condensed Consolidated Balance Sheets. As of March 31, 2024 and December 31, 2023, the Company had \$ 1.3 million and \$ 5.3 million, respectively, of debt issuance costs associated with the revolver loan.

During the quarter ended March 31, 2024, the Company entered into a bilateral agreement with a bank in the amount of \$ 0.5 million that is fully collateralized by cash, which is classified as "Restricted cash" in the Company's Condensed Consolidated Balance Sheet as of March 31, 2024.

3.875 % Senior Unsecured Notes due 2028

On August 7, 2020, the Company completed its offering of \$ 450.0 million aggregate principal amount of its Senior Unsecured Notes. Interest on the Senior Unsecured Notes is payable on February 15th and August 15th of each year until maturity, beginning on February 15, 2021. The Senior Unsecured Notes will mature on August 15, 2028.

As of August 15, 2023, the Company may redeem the Senior Unsecured Notes, in whole or in part, at the redemption prices set forth in the related indenture, plus accrued and unpaid interest. As of August 15, 2023, the Company may redeem all or a portion of the Senior Unsecured Notes at a redemption price equal to 100 % of the principal amount of the Senior Unsecured Notes plus a "make-whole" premium and accrued and unpaid interest as set forth in the related indenture. Upon the occurrence of a change of control, the Company must offer to repurchase the Senior Unsecured Notes at a purchase price of 101 % of the principal amount of such notes plus accrued and unpaid interest.

Negative covenants in the indenture governing the Senior Unsecured Notes, among other things, limit the ability of the Company to incur indebtedness and liens, dispose of assets, make investments, enter into certain merger or consolidation transactions and make restricted payments.

Senior Secured Credit Facilities

On February 29, 2024, the Company entered into the Forbearance Agreement and Amendment to, among other things, (a) provide that the Administrative Agent and the lenders forbear from exercising all rights and remedies under the Senior Secured Credit Facilities and the other related loan documents arising from the occurrence and continuation of certain specified events of default during the Forbearance Period and (b) provide consent by the required revolving credit lenders to make further loans to the Company or other extensions of credit to the credit parties during the Forbearance Period, notwithstanding the occurrence of the specified events of default, subject to certain conditions set forth in the Forbearance Agreement and Amendment, including a limit on Revolving Credit Facility indebtedness of \$ 270 million. The Forbearance Agreement and Amendment also amended, among other things, (x) the interest rate benchmark to provide that borrowings will bear interest at a rate per annum equal to (A) 5.00 % with respect to Base Rate Loans, (B) 6.50 % per annum with respect to SOFR Loans, Daily Simple SONIA Loans and Eurocurrency Rate Loans, and (C) 0.40 % with respect to Commitment Fees, (y) the mandatory prepayment threshold amount for unrestricted cash and cash equivalents from \$ 125,000,000 to \$ 100,000,000 , and (z) the mandatory principal prepayment amount from 75 % of all milestone payments received by the Company and its subsidiaries from certain project milestone payments to 100 %. Under the Forbearance Agreement and Amendment, the Company and the other guarantors agreed to cause Emergent BioSolutions Canada Inc. to (i) become a guarantor under the Senior Secured Credit Facilities and (ii) grant a security lien in all collateral owned by Emergent BioSolutions Canada Inc. (subject to the exclusions and exceptions specified in the Collateral Agreement) to the Administrative Agent. In addition, in connection with the entry into the Forbearance Agreement and Amendment, the Company paid a forbearance fee of approximately \$ 1.2 million. The Forbearance Period expired on April 30, 2024. See Note 2, "Summary of significant accounting policies" for further discussion of the Forbearance Agreement and Amendment.

On April 29, 2024, the Company entered into a Consent, Waiver and Seventh Amendment to the Amended and Restated Credit Agreement with requisite lenders (the "Seventh Amendment"). The Seventh Amendment, among other things: (a) reduces available commitments under the Revolving Credit Facility to \$ 270.0 million through July 30, 2024, to \$ 225.0 million from July 31, 2024 through October 30, 2024, and to \$ 200.0 million on October 31, 2024, and thereafter; (b) amends the interest rate benchmark in the definition of Applicable Margin from (i) 5.00 % per annum to 7.00 % per annum with respect to Base Rate Loans and (ii) 6.50 % per annum to 8.50 % per annum with respect to SOFR Loans, RFR Loans and Eurocurrency Rate Loans; and (c) requires the requirement that the Company to raise equity or unsecured indebtedness of at least \$ 85.0 million by July 31, 2024 (or such later date on or before September 29, 2024 as agreed to by the Administrative Agent), provided that such requirement will be reduced by the aggregate net cash proceeds received from certain dispositions that are applied to reduce amounts outstanding under the Revolving Credit Facility.

In addition, pursuant to the Seventh Amendment, the Company is obligated to apply 100 % of the aggregate net cash proceeds received from certain dispositions to the prepayment of amounts outstanding under the Revolving Credit Facility, except where such proceeds exceed \$ 85,000,000 , in which case such mandatory prepayment of the Revolving Credit Facility will no longer be required. Mandatory prepayment of the Term Loan Facility will not be required unless and until the aggregate net proceeds from such dispositions exceed \$ 85,000,000 , at which point 100 % of such proceeds must be used toward repayment of amounts outstanding under the Term Loan Facility.

Under the Seventh Amendment, the Company is also subject to (a) a monthly minimum consolidated EBITDA covenant through May 15, 2025 and a monthly maximum capital expenditures covenant through March 31, 2025, (b) a minimum liquidity requirement, and (c) additional financial statement reporting and business plan forecast obligations. In connection with the entry into the Seventh Amendment, the Company paid an amendment fee of an aggregate amount equal to 0.5 % of the total credit exposure as of the Seventh Amendment effective date and will be required to pay an additional amendment fee of 1.0 % of total credit exposure at December 1, 2024 and each month thereafter. See Note 2, "Summary of significant accounting policies" for additional information related to the Company's compliance with the debt covenants described above.

10. Share-based compensation and stockholders' equity

Share-based compensation

The Company's share-based compensation expense relates to stock options, performance stock options, restricted stock units, performance stock units and liability classified long-term incentive awards. During the three months ended March 31, 2024, the Company granted stock options to purchase 3.7 million shares of common stock and granted performance stock options, subject to market conditions, to purchase 0.8 million shares of common stock. The grants were made under the Emergent BioSolutions Inc. Amended and Restated Stock Incentive Plan and the Emergent BioSolutions Inc. Inducement Plan. Additionally, during the three months ended March 31, 2024, the Company granted a long-term incentive award, subject to market conditions, with the option to settle in any combination of cash or shares, which is accounted for as a liability classified award. The performance stock options and the long-term incentive award were valued using Monte Carlo valuation models, and both have a performance period of five years to vest based on the Company's stock price performance. The long-term incentive award will be revalued at each reporting period until the award is earned or expires. The Company's other equity awards typically vest over three equal annual installments beginning on the day prior to the anniversary of the grant date. The performance stock units settle in stock at the end of the three-year performance period based on the Company's results compared to the performance criteria. During the three months ended March 31, 2024, 0.1 million stock options and 0.1 million shares of restricted stock units were forfeited prior to the completion of the applicable vesting requirements or expiration. An immaterial number of performance stock units were forfeited during the three months ended March 31, 2024.

Share -based compensation expense, net of forfeitures was recorded in the following financial statement line items:

	Three Months Ended March 31,	
	2024	2023
Cost of Commercial Product sales	\$ —	\$ 0.1
Cost of MCM Product sales	0.7	1.3
Cost of Bioservices	0.1	0.3
R&D	0.5	0.7
Selling, general and administrative	4.6	4.4
Total share-based compensation expense	\$ 5.9	\$ 6.8

Stockholders' equity

At-the-Market Equity Offering Facility

The Company may, from time to time, sell up to \$ 150.0 million aggregate gross sales price of shares of its common stock through Evercore Group L.L.C. and RBC Capital Markets, LLC, as sales agents, under an "at-the-market" equity offering program (the "ATM Program") that was entered into on May 17, 2023. There were no sales of the Company's common stock under the ATM Program during the three months ended March 31, 2024. As a result of the delayed filing of certain of the Company's periodic reports with the SEC in 2023, the Company is not currently eligible to sell any shares under the ATM Program until the Company has timely filed certain periodic reports required under the Securities Exchange Act of 1934 (the "Exchange Act") for 12 consecutive calendar months. Between the entry into the ATM Program and March 31, 2024, the Company has sold 1.1 million shares of the Company's common stock for gross proceeds of \$ 9.1 million, representing an average share price of \$ 8.22 per share. As of March 31, 2024, \$ 140.9 million aggregate gross sales price of shares of the Company's common stock remains available for issuance under the ATM Program. The Company intends to use proceeds obtained from the sale of shares under the ATM Program for general corporate purposes.

Accumulated other comprehensive income (loss), net of tax

The following table includes changes in accumulated other comprehensive income (loss), net of tax by component:

	Defined Benefit Pension Plan	Derivative Instruments	Foreign Currency Translation Adjustments	Total
Balance at December 31, 2023	\$ —	\$ —	\$ (5.7)	\$ (5.7)
Other comprehensive income before reclassifications	—	—	0.2	0.2
Net current period other comprehensive income	—	—	0.2	0.2
Balance at March 31, 2024	\$ —	\$ —	\$ (5.5)	\$ (5.5)
Balance at December 31, 2022	\$ 3.5	\$ 6.2	\$ (6.6)	\$ 3.1
Other comprehensive loss before reclassifications	—	(4.4)	(0.1)	(4.5)
Amounts reclassified from accumulated other comprehensive income	—	2.4	—	2.4
Net current period other comprehensive loss	—	(2.0)	(0.1)	(2.1)
Balance at March 31, 2023	\$ 3.5	\$ 4.2	\$ (6.7)	\$ 1.0

The tables below present the tax effects related to each component of other comprehensive income (loss):

	Three Months Ended March 31,			2023		
	Pretax	Tax Expense	Net of tax	Pretax	Tax Expense	Net of tax
Derivative instruments	—	—	—	(2.6)	0.6	(2.0)
Foreign currency translation adjustments	0.2	—	0.2	(0.1)	—	(0.1)
Total adjustments	\$ 0.2	\$ —	\$ 0.2	\$ (2.7)	\$ 0.6	\$ (2.1)

11. Net income (loss) per common share

Basic earnings or loss per common share is calculated using the treasury method by dividing net income (loss) by the weighted average number of shares of common stock outstanding during the period. Diluted income or loss per common share adjusts basic earnings or loss per common share for the effects of potentially dilutive common shares and is calculated using the treasury stock method. Potentially dilutive common shares include the dilutive effect of shares issuable under our equity compensation plans, including stock options, restricted stock units and performance stock units. Diluted income or loss per share excludes anti-dilutive securities, which represent the number of potential common shares related to shares issuable under our equity compensation plan that were excluded from diluted income or loss per common share because their effect would have been antidilutive.

The following table presents the calculation of basic and diluted income or loss per common share:

	Three Months Ended March 31,		
	2024	2023	
Numerator:			
Net income (loss)	\$ 9.0	\$ (186.2)	
Denominator:			
Weighted-average number of shares outstanding-basic	52.2	50.2	
Weighted-average number of shares outstanding-diluted	52.2	50.2	
Income (loss) per common share - basic	\$ 0.17	\$ (3.71)	
Income (loss) per common share - diluted	\$ 0.17	\$ (3.71)	
Anti-dilutive securities	4.5	3.2	

12. Revenue recognition

The Company generates the majority of its revenues through product sales to its customers. The Company also generates revenues through its Bioservices offerings and suite reservations for and to third parties and contracts and grants revenue. The Company recognizes revenue when the Company's customers obtain control of promised goods or services, in an amount that reflects the consideration which the Company expects to receive in exchange for those goods or services by analyzing the following five steps: (1) identify the contract with (a) customer(s); (2) identify the performance obligations in the contract; (3) determine the transaction price; (4) allocate the transaction price to the performance obligations in the contract; and (5) recognize revenue when (or as) the entity satisfies a performance obligation.

In the third quarter of 2023, the Company launched over-the-counter ("OTC") NARCAN®, which was approved by the FDA as an over-the-counter emergency treatment of opioid overdose, broadening the Company's customer base and sales channels to retail pharmacies and digital commerce websites. The Company's Nasal Naloxone Products are now sold commercially over-the-counter at retail pharmacies and digital commerce websites as well as through physician-directed or standing order prescriptions at retail pharmacies, health departments, local law enforcement agencies, community-based organizations, substance abuse centers and other federal agencies.

The Company's OTC NARCAN® customer contracts are fixed price contracts. The Company invoices and records revenue when the pharmacies and wholesalers receive product from the third-party logistics warehouse used by the Company, which is the point at which control is transferred to the customer. Revenues for OTC NARCAN® are recorded at the net sales price (transaction price), which includes estimates of variable consideration for which reserves are established. Estimates of variable consideration includes allowance for returns, specialty distributor fees, wholesaler fees and prompt payment discounts. OTC NARCAN® may also be sold on consignment through third-party online retailers where revenues are recognized at the point in time when sold to the end customer. The Company pays these third-party online retailers selling commissions and fulfillment fees which are recorded as SG&A expenses and Cost of commercial product sales, respectively, in the Condensed Consolidated Statement of Operations. Revenues from OTC NARCAN® are recognized to the extent that it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainty associated with such variable consideration is subsequently resolved. The Company considers several factors in the estimation process for the allowance for returns of OTC NARCAN®, including inventory levels within the distribution channel, product shelf life and historical return activity, including activity for product sold for which the return period has passed, as well as other relevant factors. Because returned product cannot be resold, there is no corresponding asset for product returns.

The Company's revenues disaggregated by operating segment and major sources for the three months ended March 31, 2024 and 2023 were as follows:

	Three Months Ended March 31, 2024			Three Months Ended March 31, 2023		
	USG	Non-USG	Total	USG	Non-USG	Total
Commercial Product sales	\$ 0.3	\$ 118.2	\$ 118.5	—	\$ 106.2	\$ 106.2
MCM Product sales	114.1	41.3	155.4	26.1	11.1	37.2
Bioservices:						
Services	—	18.3	18.3	—	12.6	12.6
Leases	—	0.2	0.2	—	1.8	1.8
Total Bioservices	\$ —	\$ 18.5	\$ 18.5	—	\$ 14.4	\$ 14.4
Contracts and grants	7.4	0.6	8.0	4.9	1.6	6.5
Total revenues	\$ 121.8	\$ 178.6	\$ 300.4	\$ 31.0	\$ 133.3	\$ 164.3

Bioservices operating leases

Certain multi-year Bioservices arrangements with non-USG customers include operating leases whereby the customer has the right to direct the use of and obtain substantially all of the economic benefits of specific manufacturing suites operated by the Company. The associated revenue is recognized on a straight-line basis over the term of the lease. The remaining term on the Company's operating lease components approximates 4.8 years. The Company utilizes a cost-plus model to determine the stand-alone selling price of the lease component to allocate contract consideration between the lease and non-lease components. During the three months ended March 31, 2024, the Company's non-USG lease revenues were \$ 0.2 million, which is included within Bioservices "Leases" on the Condensed Consolidated Statement of Operations. The Company estimates future operating lease revenues to be \$ 0.6 million in the remainder of 2024, \$ 0.8 million in 2025, \$ 0.9 million in 2026, \$ 0.9 million in 2027, \$ 0.9 million in 2028 and no lease revenue in 2029 and thereafter.

Transaction price allocated to remaining performance obligations

As of March 31, 2024, the Company has future contract value on unsatisfied performance obligations of approximately \$ 279.3 million associated with all arrangements entered into by the Company. The Company expects to recognize \$ 273.5 million of unsatisfied performance obligations within the next 24 months. The amount and timing of revenue recognition for unsatisfied performance obligations can change. The future revenues associated with unsatisfied performance obligations exclude the value of unexercised option periods in the Company's revenue arrangements. Often the timing of manufacturing activities changes based on customer needs and resource availability. Government funding appropriations can impact the timing of product deliveries. The success of the Company's development activities that receive development funding support from the USG under development contracts can also impact the timing of revenue recognition.

Contract assets

The Company considers accounts receivable and deferred costs associated with revenue generating contracts, which are not included in inventory or property, plant and equipment and that the Company does not currently have a contractual right to bill, to be contract assets. As of March 31, 2024 and December 31, 2023, the Company had \$ 29.5 million and \$ 21.9 million, respectively, of contract assets recorded within "Accounts receivable, net" on the Condensed Consolidated Balance Sheets.

Contract liabilities

When performance obligations are not transferred to a customer at the end of a reporting period, cash received associated with amounts allocated to those performance obligations is reflected as contract liabilities on the Condensed Consolidated Balance Sheets and is deferred until control of these performance obligations is transferred to the customer. The following table presents the roll forward of the contract liability balances:

	Contract Liabilities
Balance at December 31, 2023	\$ 29.9
Balance at March 31, 2024	\$ 9.7
Revenue recognized in the period from amounts included in contract liability at the beginning of the period:	\$ 24.0

As of March 31, 2024 and December 31, 2023, the current portion of contract liabilities was \$ 5.5 million and \$ 27.2 million, respectively, and was included in "Other current liabilities" on the Condensed Consolidated Balance Sheets.

Accounts receivable and allowance for expected credit losses

Accounts receivable, including unbilled accounts receivable contract assets, consist of the following:

	March 31, 2024	December 31, 2023
Accounts receivable:		
Billed	\$ 194.1	\$ 141.8
Unbilled	41.6	51.4
Allowance for expected credit losses	(2.2)	(2.2)
Accounts receivable, net	\$ 233.5	\$ 191.0

We maintain an allowance for expected credit losses, which represents the estimated aggregate amount of credit risk arising from the inability or unwillingness of specific customers to pay our fees or disputes that may affect our ability to fully collect our billed accounts receivable. We estimate the current-period provision for expected credit losses on a specific identification basis and we consider factors such as the age of the receivables balance, knowledge of the specific customers' circumstances and historical collection experience for similar customers. Accounts receivable, net of the allowance for expected credit losses, represents the amount we expect to collect. Our actual experience may vary from our estimates. At each reporting date, we adjust the allowance for expected credit losses to reflect our current estimate.

13. Leases

The Company is the lessee for operating leases for offices, R&D facilities and manufacturing facilities. The Company determines if an arrangement is a lease at inception. Operating leases are included in right-of-use assets and liabilities. For a discussion of lessor activities, see Note 12, "Revenue recognition."

The components of lease expense were as follows:

	Three Months Ended March 31,	
	2024	2023
Operating lease cost:		
Amortization of right-of-use assets	\$ 0.9	\$ 1.1
Interest on lease liabilities	0.2	0.2
Total operating lease cost	\$ 1.1	\$ 1.3

Operating lease costs are reflected as components of "Cost of Commercial Product sales", "Cost of MCM Product sales", "Cost of Bioservices", "R&D" expense and "SG&A" expense on the Company's Condensed Consolidated Statements of Operations.

Supplemental balance sheet information related to lessee activities is as follows:

Leases	Classification	March 31, 2024	December 31, 2023
Operating lease right-of-use assets	Other assets	\$ 15.3	\$ 16.2
Operating lease liabilities, current portion	Other current liabilities	\$ 3.3	\$ 3.5
Operating lease liabilities	Other liabilities	13.0	13.8
Total operating lease liabilities		\$ 16.3	\$ 17.3

Operating leases:	
Weighted average remaining lease term (years)	6.1
Weighted average discount rate	5.3 %

14. Income taxes

The estimated effective annual tax rate as of March 31, 2024 and 2023 for the years ended December 31, 2024 and 2023, excluding the impact of discrete adjustments, was 19 % and (16)%, respectively. The effective tax rate for the three months ended March 31, 2024 and 2023 was 26 % and (16)%, respectively. The increase in the estimated effective annual tax rate is primarily due to a change in jurisdictional mix of income and losses. The Company did not record a discrete tax expense (benefit) for the three months ended March 31, 2024 and 2023.

The Company establishes valuation allowances for deferred income tax assets in accordance with U.S. GAAP, which provides that such valuation allowances shall be established unless realization of the income tax benefits is more likely than not. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. At each reporting period, the Company considers the scheduled reversal of deferred tax liabilities and assets, available taxes in carryback periods, tax planning strategies and projected future taxable income in making this assessment.

In 2022, the Company determined that it was more likely than not that certain deferred tax assets would not be realized due to reductions in estimates of future profitability and disclosure related to substantial doubt about the Company's ability to continue as a going concern.

15. Litigation

Securities and shareholder litigation

With respect to the specific legal proceedings and claims described below, unless otherwise noted, the amount or range of possible losses is not reasonably estimable. There can be no assurance that the settlement, resolution, or other outcome of one or more matters, including the matters set forth below, during any subsequent reporting period will not have a material adverse effect on the Company's results of operations or cash flows for that period or on the Company's financial condition.

On April 20, 2021, May 14, 2021, and June 2, 2021, putative class action lawsuits were filed against the Company and certain of its current and former senior officers in the United States District Court for the District of Maryland on behalf of purchasers of the Company's common stock, seeking to pursue remedies under the Exchange Act. These complaints were filed by Palm Tran, Inc. – Amalgamated Transit Union Local 1577 Pension Plan; Alan I. Roth; and Stephen M. Weiss, respectively. The complaints allege, among other things, that the defendants made false and misleading statements about the Company's manufacturing capabilities with respect to COVID-19 vaccine bulk drug substance (referred to herein as "CDMO Manufacturing Capabilities"). These cases were consolidated on December 23, 2021, under the caption *In re Emergent BioSolutions Inc. Securities Litigation*, No. 8:21-cv-00955-PWG (the "Federal Securities Class Action"). The lead plaintiffs in the consolidated matter (the "Lead Plaintiffs") are Nova Scotia Health Employees' Pension Plan and The City of Fort Lauderdale Police & Firefighters' Retirement System. The defendants filed a motion to dismiss on May 19, 2022 and the Lead Plaintiffs filed an opposition to that motion on July 19, 2022. A hearing on the motion to dismiss was conducted on April 19, 2023 and an order was entered on September 1, 2023, granting in part and denying in part the motion to dismiss. The defendant's answer to the complaint was filed on October 30, 2023. The defendants believe that the allegations in the complaints are without merit and intend to defend the matters vigorously. Given the uncertainty of litigation, the preliminary stage of the cases, and the legal standards that must be met for, among other things, class certification and success on the merits, the Company cannot reasonably estimate the possible loss or range of loss, if any, that may result from the consolidated action.

On June 29, 2021, Lincolnshire Police Pension Fund ("Lincolnshire"), and on August 16, 2021, Pooja Sayal, filed putative shareholder derivative lawsuits in the United States District Court for the District of Maryland on behalf of the Company against certain of the Company's current and former officers and directors for breach of fiduciary duties, waste of corporate assets, and unjust enrichment, each allegation related to the CDMO Manufacturing Capabilities. In addition to monetary damages, the complaints seek the implementation of multiple corporate governance and internal policy changes. On November 16, 2021, the cases were consolidated under the caption *In re Emergent BioSolutions Inc. Stockholder Derivative Litigation*, Master Case No. 8:21-cv-01595-PWG. On January 3, 2022, the Lincolnshire complaint was designated as the operative complaint in the consolidated action. On April 13, 2022, the Court approved the parties' joint stipulation to stay of the proceedings and discovery until the close of fact discovery in the Federal Securities Class Action. The defendants believe that the allegations in the complaints are without merit and intend to defend the matter vigorously.

On September 15, 2021, September 16, 2021 and November 12, 2021, putative shareholder derivative lawsuits were filed by Chang Kyum Kim, Mark Nevins and Employees Retirement System of the State of Rhode Island, North Collier Fire Control and Rescue District Firefighters Pension Plan, and Pembroke Pines Firefighters & Police Officers Pension Fund, respectively, in the Court of Chancery of the State of Delaware on behalf of the Company against certain of its current and former officers and directors for breach of fiduciary duties, unjust enrichment and insider trading, each allegation related to the CDMO Manufacturing Capabilities. In addition to monetary damages, the complaints seek the implementation of multiple corporate governance and internal policy changes. On February 2, 2022, the cases were consolidated under the caption *In re Emergent BioSolutions, Inc. Derivative Litigation*, C.A. No. 2021-0974-MTZ with the institutional investors as co-lead plaintiffs. On March 4, 2022, the defendants' filed a motion to dismiss the complaint. Ruling on this motion is stayed pursuant to a March 29, 2022 order staying all proceedings pending a final, non-appealable judgment in the Federal Securities Class Action.

On December 3, 2021, December 22, 2021 and January 18, 2022, putative shareholder derivative lawsuits were filed by Zachary Elton, Eric White and Jeffrey Reynolds in the Circuit Court for Montgomery County, Maryland on behalf of the Company against certain of its current and former officers and directors for breach of fiduciary duty, unjust enrichment, waste of corporate assets, failing to maintain internal controls, making or causing to be made false and/or misleading statements and material omissions, insider trading and otherwise violating the federal securities laws, each allegation related to the CDMO Manufacturing Capabilities. The complaints seek monetary and punitive damages. On February 22, 2022, the Court entered an order consolidating these actions under case number C-15-21-CV-000496. On March 9, 2022, the parties filed a Joint Stipulation of Stay of Proceedings and Discovery, pursuant to which the parties agreed to stay all proceedings until 30 calendar days after a ruling on the defendants' motion to dismiss, and on November 2, 2023, the Court approved the parties' joint stipulation to extend the stay of the proceedings and discovery until the close of fact discovery in the Federal Securities Class Action.

In addition to the above actions, the Company has received inquiries and subpoenas to produce documents related to these matters from the Department of Justice, the SEC, the Maryland Attorney General's Office, and the New York Attorney General's Office. The Company produced or is producing documents as required in response and will continue to cooperate with these government inquiries. The Company also received inquiries and subpoenas from Representative Carolyn Maloney and Representative Jim Clyburn, members of the House Committee on Oversight and Reform and the Select Subcommittee on the Coronavirus Crisis and Senator Murray of the Committee on Health, Education, Labor and Pensions. The Company produced documents and provided testimony and briefings as requested in response to these inquiries.

2022 Termination of manufacturing services agreement with Janssen Pharmaceuticals, Inc.

On July 2, 2020, the Company, through its wholly owned subsidiary, Emergent Manufacturing Operations Baltimore, LLC, entered into the Janssen Agreement with Janssen, one of the Janssen Pharmaceutical Companies of Johnson & Johnson, for large-scale drug substance manufacturing of Johnson & Johnson's investigational SARS-CoV-2 vaccine, Ad26.COV2-S, recombinant based on the AdVac technology (the "Product").

On June 6, 2022, the Company provided to Janssen a notice (the "Notice") of material breach of the Janssen Agreement for, among other things, failure by Janssen (i) to provide the Company the requisite forecasts of the required quantity of Product to be purchased by Janssen under the Janssen Agreement and (ii) to confirm Janssen's intent to not purchase the requisite minimum quantity of the Product pursuant to the Janssen Agreement and instead, wind-down the Janssen Agreement ahead of fulfilling these minimum requirements. On June 6, 2022, the Company received from Janssen a purported written notice of termination (the "Janssen Notice") of the Janssen Agreement for asserted material breaches of the Janssen Agreement by the Company, including alleged failure by the Company to perform its obligations in compliance with current good manufacturing practices ("cGMP") or other applicable laws and regulations and alleged failure by the Company to supply Janssen with the Product. Janssen alleged that the Company's breaches were not curable and that, therefore, termination of the Janssen Agreement would be effective as of July 6, 2022. The Company disputes Janssen's assertions and allegations, including Janssen's ability to effect termination pursuant to the Janssen Notice. The Company and Janssen disagree on the monetary amounts that are due to the Company as a result of termination by any means. The Company believes the amounts due to the Company include, but are not limited to, compensation for services provided, reimbursement for raw materials purchased and non-cancelable orders, and fees for early termination. Janssen has alleged that no additional amount is due to the Company and that the Company should pay Janssen an unspecified amount as a result of the Company's alleged failure to perform under the Janssen Agreement. The Company is currently engaged in a confidential arbitration with Janssen. The Company has not recorded any contingent liabilities related to Janssen's allegations as the Company believes they are without merit and intends to vigorously defend the Company's position during the dispute resolution process through arbitration.

During the three months ended March 31, 2024, there were no impacts on previously recognized revenue or depreciation related to the conclusion of the Janssen Agreement. As of March 31, 2024, the Company has no billed or unbilled net accounts receivable related to the Janssen Agreement.

Beginning in the fourth quarter of 2022, because the arbitration process with Janssen is expected to extend longer than one year, the Company reclassified amounts related to the Janssen Agreement from "Inventories, net" and from "Prepaid expenses and other current assets" to "Other assets", resulting in \$ 152.7 million in long-term assets related to the Janssen Agreement on the Condensed Consolidated Balance Sheet as of December 31, 2022. The long-term asset balance within "Other Assets" related to the Janssen Agreement as of March 31, 2024 was \$ 158.8 million. These assets include termination penalties, certain inventory related items and raw materials inventory representing materials purchased for the Janssen Agreement which Janssen has not reimbursed. The Company evaluated the net realizable value of the inventory as of March 31, 2024, concluding that because the Janssen Agreement specifies the Company is entitled to, among other things, reimbursement of raw materials and non-cancelable orders in the event of a contract termination for any reason, the Company is entitled to payment from Janssen for these raw materials. As of March 31, 2024, all non-cancelable orders have been received by Janssen and are included in the long-term asset balance within "Other Assets".

16. Segment information

In the fourth quarter of 2023, the Company realigned its reportable operating segments to reflect recent changes in the Company's internal operating and reporting process. The revised reporting structure reflects the internal reporting and review process used by the Company's CODM for making decisions and assessing performance and is consistent with how the Company currently manages the business. The Company now manages its business with a focus on three reportable segments. The Commercial Products segment, which includes NARCAN® products and other commercial products that were sold as part of the travel health business in the second quarter of 2023 (see Note 3, "Divestiture" for more information on the sale of the travel health business); the MCM Products segment, which includes the Anthrax - MCM products, Smallpox - MCM products and Other Products; and the Services segment, consisting of the Company's Bioservices offerings.

The Company evaluates the performance of these reportable segments based on revenue and segment adjusted gross margin, which is a non-GAAP financial measure. Segment revenue includes external customer sales, but it does not include inter-segment services. The Company defines segment adjusted gross margin, as segment gross margin excluding the impact of restructuring costs and non-cash items related to changes in fair value of contingent consideration and inventory step-up provision. We define total segment adjusted gross margin, which is a non-GAAP financial measure, as total segment gross margin, excluding the impact of restructuring costs and the fair value of contingent consideration. The Company does not allocate research and development, selling, general and administrative costs, amortization of intangibles assets, interest and other income (expense) or taxes to operating segments in the management reporting reviewed by the CODM. The accounting policies for segment reporting are the same as for the Company as a whole.

The Company manages its assets on a total company basis, not by operating segment, as the Company's operating assets are shared or commingled. Therefore, the Company's CODM does not regularly review any asset information by operating segment and, accordingly, the Company does not report asset information by operating segment.

For all tables presented below, the prior period disclosures have been recast to conform to the current period segment presentation.

The following table presents segment revenues, segment cost of sales or services, segment gross margin, segment gross margin percentage and segment adjusted gross margin for each of the Company's reportable segments for the three months ended March 31, 2024 and 2023:

	Three Months Ended March 31,		
	2024	2023	
Revenues:			
Commercial Products	\$ 118.5	\$ 106.2	
MCM Products	155.4	37.2	
Services	18.5	14.4	
Segment revenues	292.4	157.8	
Contracts and grants revenue	8.0	6.5	
Total revenues	\$ 300.4	\$ 164.3	
Cost of sales or services:			
Cost of Commercial Products	\$ 52.1	\$ 45.8	
Cost of MCM Products	62.2	55.4	
Cost of Services	30.3	51.7	
Total cost of sales or services	\$ 144.6	\$ 152.9	
Gross margin			
Commercial Products	\$ 66.4	\$ 60.4	
MCM Products	93.2	(18.2)	
Services	(11.8)	(37.3)	
Total segment gross margin ⁽¹⁾	\$ 147.8	\$ 4.9	
Gross margin %			
Commercial Products	56 %	57 %	
MCM Products	60 %	(49)%	
Services	(64)%	(259)%	
Total Segment	51 %	3 %	
Segment adjusted gross margin			
Commercial Products	\$ 66.4	\$ 60.4	
MCM Products	93.6	(15.9)	
Services	(12.0)	(37.3)	
Total segment adjusted gross margin	\$ 148.0	\$ 7.2	

(1) Segment revenues less total cost of sales or services.

The following table provides a reconciliation of the Company's total segment adjusted gross margin to the Condensed Consolidated Statement of Operations:

	Three Months Ended March 31,	
	2024	2023
Total segment adjusted gross margin	\$ 148.0	\$ 7.2
Reconciling items:		
Contracts and grants revenue	\$ 8.0	\$ 6.5
Segment restructuring costs	0.3	(2.0)
Changes in fair value of contingent consideration	(0.5)	(0.3)
Research and development	(15.1)	(40.7)
Selling, general and administrative	(84.7)	(101.3)
Amortization of intangible assets	(16.2)	(17.0)
Interest expense	(24.3)	(17.9)
Other, net	(3.4)	4.9
Income (loss) before income taxes	\$ 12.1	\$ (160.6)

The following table includes depreciation expense for each segment:

	Three Months Ended March 31,	
	2024	2023
Depreciation:		
Commercial Products	\$ —	\$ 0.3
MCM Products	5.6	7.7
Services	2.6	7.9
Other	3.5	1.7
Total	\$ 11.7	\$ 17.6

17. Subsequent events

May 2024 Organizational Restructuring Plan

On May 1, 2024, the Company announced an organizational restructuring plan (the "May 2024 Plan"). These strategic actions will lead to a reduction of the Company's current workforce by approximately 300 employees across all areas of the Company and the elimination of approximately 85 positions that are currently vacant, as well as the closure of the Company's Baltimore-Bayview Drug Substance manufacturing facility and Rockville, Maryland Drug Product facility. Decisions regarding the elimination of positions and the closure of manufacturing facilities are subject to local law and consultation requirements in certain countries, as well as the Company's business needs.

The Company estimates that it will incur approximately \$18.0 million to \$21.0 million in charges in connection with the May 2024 Plan, which it expects to incur primarily in the second quarter of fiscal 2024. These charges consist primarily of cash charges related to severance, transition services, and estimated benefits cost.

The estimates of the charges and expenditures that the Company expects to incur in connection with the May 2024 Plan, and the timing thereof, are subject to a number of assumptions, including local law requirements in various jurisdictions, and actual amounts may differ materially from estimates. In addition, the Company may incur other charges or cash expenditures not currently contemplated due to unanticipated events that may occur, including in connection with the implementation of the May 2024 Plan.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited condensed consolidated financial statements and accompanying notes and other financial information included elsewhere in this quarterly report on Form 10-Q and our audited consolidated financial statements and related notes included in our Annual Report on Form 10-K for the year ended December 31, 2023 (the "2023 Form 10-K"). Some of the information contained in this discussion and analysis or set forth elsewhere in this quarterly report on Form 10-Q includes information with respect to our plans and strategy for our business and financing, as well as forward-looking statements that involve risks and uncertainties. You should carefully review the sections entitled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements" in this Quarterly Report on Form 10-Q for a discussion of important factors that could cause actual results to differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis.

BUSINESS OVERVIEW

Emergent BioSolutions Inc. ("Emergent," the "Company," "we," "us," and "our") is a global life sciences company focused on providing innovative preparedness and response solutions addressing accidental, deliberate, and naturally occurring Public Health Threats ("PHTs"). The Company's solutions include a product portfolio, a product development portfolio, and a contract development and manufacturing services ("CDMO") portfolio.

We are currently focused on the following four PHT categories: chemical, biological, radiological, nuclear and explosives ("CBRNE"); emerging infectious diseases ("EID"); public health crises; and acute, emergency and community care. We have a product portfolio of 12 products that contribute a substantial portion of our revenue and are sold to government and commercial customers. Additionally, we have a development pipeline consisting of a diversified mix of both pre-clinical and clinical stage product candidates. Finally, we have a fully integrated portfolio of CDMO services which cover development services, drug substance manufacturing and drug product manufacturing and packaging.

The Company structures the business with a focus on markets and customers. As such, the key components of the business structure include the following four product and service categories: Anthrax - Medical Countermeasures ("MCM") Products, NARCAN®, Smallpox - MCM products, and Emergent Bioservices (CDMO) services ("Bioservices"). In the fourth quarter of 2023, we realigned our reportable operating segments to reflect recent changes in our internal operating and reporting process. The revised reporting structure reflects the internal reporting and review process used by our Chief Operating Decision Maker, for making decisions and assessing performance, and is consistent with how we currently manage the business. We now manage our business with a focus on three reportable segments: (1) a Commercial Products segment consisting of our NARCAN® and Other Commercial Products; (2) a MCM Products segment consisting of the Anthrax - MCM, Smallpox - MCM and Other Products; and (3) a Services segment consisting of our Bioservices offerings.

Commercial Products Segment:

The majority of our Commercial product revenue comes from the following products:

NARCAN®

- NARCAN® (naloxone HCl) Nasal Spray, an intranasal formulation of naloxone approved by the FDA (including in over-the-counter form) and Health Canada for the emergency treatment of known or suspected opioid overdose as manifested by respiratory and/or central nervous system depression.

Other Commercial Products (Sold to Bavarian Nordic as part of our travel health business in May 2023)

- Vaxchora® (Cholera Vaccine, Live, Oral), the first vaccine approved by the FDA for the prevention of cholera, which we sold to Bavarian Nordic as part of our travel health business; and
- Vivovif® (Typhoid Vaccine Live Oral Ty21a), a live attenuated vaccine for oral administration for the prevention of typhoid fever, which we sold to Bavarian Nordic as part of our travel health business.

MCM Products Segment:

The majority of our MCM product revenue comes from the following products and procured product candidates:

Anthrax - MCM Products

- Anthrasil® (Anthrax Immune Globulin Intravenous (human)), the only polyclonal antibody therapeutic licensed by the FDA and Health Canada for the treatment of inhalational anthrax in combination with appropriate antibacterial drugs;
- BioThrax® (Anthrax Vaccine Adsorbed), the only vaccine licensed by the United States Food and Drug Administration ("FDA") for the general use prophylaxis and post-exposure prophylaxis of anthrax disease;
- CYFENDUS® (Anthrax vaccine adsorbed (AVA), adjuvanted), previously known as AV7909, which was recently approved by the FDA for post-exposure prophylaxis of disease following suspected or confirmed exposure to *Bacillus anthracis* in persons 18 through 65 years of age when administered in conjunction with recommended antibacterial drugs. CYFENDUS® is procured by certain authorized government buyers for their use; and
- Raxibacumab injection, the first fully human monoclonal antibody therapeutic licensed by the FDA for the treatment and prophylaxis of inhalational anthrax.

Smallpox - MCM Products

- ACAM2000®, (Smallpox (Vaccinia) Vaccine, Live), the only single-dose smallpox vaccine licensed by the FDA for active immunization against smallpox disease for persons determined to be at high risk for smallpox infection;
- CNJ-016® (Vaccinia Immune Globulin Intravenous (Human) (VIGIV)), the only polyclonal antibody therapeutic licensed by the FDA and Health Canada to address certain complications from smallpox vaccination; and
- TEMBEXA®, an oral antiviral formulated as 100 mg tablets and 10 mg/mL oral suspension dosed once weekly for two weeks which has been approved by the FDA for the treatment of smallpox disease caused by variola virus in adult and pediatric patients, including neonates.

Other Products

- BAT® (Botulism Antitoxin Heptavalent (A,B,C,D,E,F,G)-(Equine)), the only heptavalent antitoxin licensed by the FDA and Health Canada for the treatment of symptomatic botulism;
- Ebanga™ (ansuvimab-zyki), a monoclonal antibody with antiviral activity provided through a single IV infusion for the treatment of Ebola. Under the terms of a collaboration with Ridgeback Biotherapeutics ("Ridgeback"), Emergent will be responsible for the manufacturing, sale, and distribution of Ebanga™ in the U.S. and Canada, and Ridgeback will serve as the global access partner for Ebanga™;
- RSDL® (Reactive Skin Decontamination Lotion Kit), the only medical device cleared by the FDA that is intended to remove or neutralize chemical warfare agents from the skin, including: tabun, sarin, soman, cyclohexyl sarin, VR, VX, mustard gas and T-2 toxin; and
- Trobigard® atropine sulfate, obidoxime chloride auto-injector, a combination drug-device auto-injector procured product candidate that contains atropine sulfate and obidoxime chloride. Trobigard® was approved in Belgium in 2021 but has not been approved by the FDA. Trobigard® is procured by certain authorized government buyers under special circumstances for potential use as a nerve agent countermeasure outside of the U.S. On April 2, 2024, Emergent submitted its revocation of the Market Authorization for the Trobigard Auto-Injector to the Belgium Federal Agency for Medicines and Health Products ("FAMHP").

Services Segment:

[Bioservices - contract development and manufacturing](#)

Our services revenue consists of distinct but interrelated Bioservices: drug substance manufacturing; drug product manufacturing (also referred to as "fill/finish" services) and packaging; development services including technology transfer, process and analytical development services; and, when necessary, suite reservation obligations. These services, which we refer to as "molecule-to-market" offerings, employ diverse technology platforms (mammalian, microbial, viral and plasma) across a network of eight geographically distinct development and manufacturing sites operated by us for our internal products and pipeline candidates and third-party Bioservices. We service both clinical-stage and commercial-stage projects for a variety of third-party customers, including government agencies, innovative pharmaceutical companies, and non-government organizations. In August 2023, we initiated an organizational restructuring plan (the "August 2023 Plan") which included actions to reduce investment in and de-emphasize focus on our Bioservices business.

Other Strategic Activities

[January 2023 Organizational Restructuring Plan](#)

In January 2023, the Company initiated an organizational restructuring plan (the "January 2023 Plan") intended to reduce operating costs, improve operating margins, and continue advancing the Company's ongoing commitment to profitable growth. As part of the January 2023 Plan, the Company reduced its workforce by approximately 125 employees. The charges related to the January 2023 plan consist primarily of employee transition, severance payment and employee benefit charges. The cumulative amount of restructuring charge related to the January 2023 Plan since inception is \$9.3 million. All activities related to the January 2023 Plan were substantially completed during the first quarter of 2023. Restructuring costs are recognized as an operating expense within the Condensed Consolidated Statement of Operations and are classified based on the Company's classification policy for each category of operating expense.

[August 2023 Organizational Restructuring Plan](#)

In August 2023, the Company initiated the August 2023 Plan intended to strengthen its core business and financial position by reducing investment in and de-emphasizing focus on its CDMO services business for future growth. As part of the August 2023 Plan, the Company reduced its workforce by approximately 400 employees. The charges related to the August 2023 Plan consist primarily of employee transition, severance payment and employee benefit charges. The cumulative amount of restructuring charge related to the August 2023 Plan since inception is \$19.5 million. All activities related to the August 2023 Plan were substantially completed during the third quarter of 2023. Restructuring costs are recognized as an operating expense within the Condensed Consolidated Statement of Operations and are classified based on the Company's classification policy for each category of operating expense.

[Trobigard Revocation](#)

On April 2, 2024, Emergent submitted its revocation of the Market Authorization for the Trobigard Auto-Injector to the Belgium FAMHP. The FAHMP subsequently acknowledged and confirmed the revocation date as being April 2, 2024.

[May 2024 Organizational Restructuring Plan](#)

On May 1, 2024, the Company announced an organizational restructuring plan (the "May 2024 Plan"). These strategic actions will lead to a reduction of the Company's current workforce by approximately 300 employees across all areas of the Company and the elimination of approximately 85 positions that are currently vacant, as well as the closure of the Company's Baltimore-Bayview Drug Substance manufacturing facility and Rockville, Maryland Drug Product facility. Decisions regarding the elimination of positions and the closure of manufacturing facilities are subject to local law and consultation requirements in certain countries, as well as the Company's business needs.

The Company estimates that it will incur approximately \$18.0 million to \$21.0 million in charges in connection with the May 2024 Plan, which it expects to incur primarily in the second quarter of fiscal 2024. These charges consist primarily of cash charges related to severance, transition services, and estimated benefits cost.

The estimates of the charges and expenditures that the Company expects to incur in connection with the May 2024 Plan, and the timing thereof, are subject to a number of assumptions, including local law requirements in various jurisdictions, and actual amounts may differ materially from estimates. In addition, the Company may incur other charges or cash expenditures not currently contemplated due to unanticipated events that may occur, including in connection with the implementation of the May 2024 Plan.

FINANCIAL OPERATIONS OVERVIEW

Revenues

We generate Commercial Product revenues through sale of NARCAN® Nasal Spray, which is sold commercially over-the-counter at retail pharmacies and digital commerce websites as well as through physician-directed or standing order prescriptions at retail pharmacies, health departments, local law enforcement agencies, community-based organizations, substance abuse centers and other federal agencies. In addition, we previously generated Commercial product revenues through sale of the Company's travel health products, which we sold to Bavarian Nordic in May 2023. We generate MCM Product revenues from the sale of our marketed products and procured product candidates. The U.S. government ("USG") is the largest purchaser of our Government - MCM products and primarily purchases our products for the Strategic National Stockpile, a national repository of medical countermeasures including critical antibiotics, vaccines, chemical antidotes, antitoxins, and other critical medical supplies. The USG primarily purchases our products under long-term, firm fixed-price procurement contracts, generally with annual options.

We also generate revenue from our Services segment through our Bioservices portfolio, which is based on our established development and manufacturing infrastructure, technology platforms and expertise. Our services include a fully integrated molecule-to-market Bioservices business offering across development services, drug substance and drug product for small to large pharmaceutical and biotechnology industry and government agencies/non-governmental organizations. From time to time, clients require suite reservations at our various manufacturing sites, which may be considered leases depending on the facts and circumstances.

We have received contracts and grant funding from the USG and other non-governmental organizations to perform R&D activities, particularly related to programs addressing certain CBRNE threats and EIDs.

Our revenue, operating results and profitability vary quarterly based on the timing of production and deliveries, the timing of manufacturing services performed and the nature of our business, which involves providing large scale bundles of products and services as needs arise. We expect continued variability in our quarterly financial results.

Cost of Product Sales and Services

Commercial and MCM Products - The primary expenses that we incur to deliver our NARCAN® and MCM and other commercial products consist of fixed and variable costs. We determine the cost of product sales for products sold during a reporting period based on the average manufacturing cost per unit in the period those units were manufactured. Fixed manufacturing costs include facilities, utilities and amortization of intangible assets. Variable manufacturing costs primarily consist of costs for materials and personnel-related expenses for direct and indirect manufacturing support staff, contract manufacturing operations, sales-based royalties, shipping and logistics. In addition to the fixed and variable manufacturing costs described above, the cost of product sales depends on utilization of available manufacturing capacity. For our commercial sales, other associated expenses include sales-based royalties, shipping, and logistics.

Services - The primary expenses that we incur to deliver our Bioservices offerings consist of fixed and variable costs, including personnel, equipment, and facilities costs. Our manufacturing process includes the production of bulk material and performing drug product work for containment and distribution of biological products. For drug product customers, we receive work in process inventory to be prepared for distribution.

Research and Development ("R&D") Expenses

We expense R&D costs as incurred. Our R&D expenses consist primarily of:

- personnel-related expenses;
- fees to professional service providers for, among other things, analytical testing, independent monitoring or other administration of our clinical trials and obtaining and evaluating data from our clinical trials and non-clinical studies;
- costs of Bioservices for our clinical trial material; and
- costs of materials intended for use and used in clinical trials and R&D.

In many cases, we seek funding for development activities from external sources and third parties, such as governments and non-governmental organizations, or through collaborative partnerships. We expect our R&D spending will be dependent upon such factors as the results from our clinical trials, the availability of reimbursement of R&D spending, the number of product candidates under development, the size, structure and duration of any clinical programs that we may initiate, the costs associated with manufacturing

and development of our product candidates on a large-scale basis for later stage clinical trials, and our ability to use or rely on data generated by government agencies.

Selling, General and Administrative Expenses

Selling, general and administrative ("SG&A") expenses consist primarily of personnel-related costs and professional fees in support of our executives, sales and marketing, business development, government affairs, finance, accounting, information technology, legal, human resource functions and other corporate functions. Other costs include facility costs not otherwise included in cost of product sales and Bioservices or R&D expense.

Income taxes

Uncertainty in income taxes is accounted for using a recognition threshold and measurement attribute for the financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. We recognize in our financial statements the impact of a tax position if that position is more likely than not of being sustained on audit, based on the technical merits of the position.

Changes in tax laws, rulings, policies, or related legal and regulatory interpretations occur frequently and may have significant favorable or adverse impacts on our effective tax rate. In 2021, the Organization for Economic Cooperation and Development ("OECD") released model rules for a 15% global minimum tax applied to cross-border profits of certain large multinational corporations, known as Pillar Two. Pillar Two has now been enacted by approximately 30 countries, including Ireland. This minimum tax is treated as a period cost beginning in 2024 and its impact is included on the Company's financial results of operations for the current period. The Company is monitoring legislative developments, as well as additional guidance from countries that have enacted legislation. We anticipate further legislative activity and administrative guidance in 2024.

Management believes that the assumptions and estimates related to the provision for income taxes are critical to the Company's results of operations.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

The preparation of our condensed consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the U.S., requires us to make estimates, judgments and assumptions that may affect the reported amounts of assets, liabilities, equity, revenues and expenses and related disclosure of contingent assets and liabilities. On an ongoing basis we evaluate our estimates, judgments and methodologies. We base our estimates on historical experience and on various other assumptions that we believe are reasonable, the results of which form the basis for making judgments about the carrying values of assets, liabilities and equity and the amount of revenues and expenses. Actual results may differ from these estimates. There have been no significant changes to our critical accounting policies and estimates contained in "Critical Accounting Policies and Estimates" in the Management's Discussion and Analysis, in Part II, Item 7, of the 2023 Form 10-K, as filed with the SEC.

New accounting standards

For a discussion of new accounting standards please see Note 2, "Summary of significant accounting policies", in Part I, Item 1, of this Quarterly Report on Form 10-Q.

RESULTS OF OPERATIONS
Consolidated and Segment Operating Results:

(in millions, except %)	Three Months Ended March 31,				
	2024	2023	\$ Change	% Change	
Revenues					
Commercial Product sales, net:					
NARCAN®	\$ 118.5	\$ 100.4	\$ 18.1	18 %	
Other Commercial Products	—	5.8	(5.8)	(100)%	
Total Commercial Product sales, net	118.5	106.2	12.3	12 %	
MCM Product sales, net:					
Anthrax MCM	55.9	21.9	34.0	155 %	
Smallpox MCM	50.2	7.2	43.0	NM	
Other Products sales	49.3	8.1	41.2	NM	
Total MCM Product sales, net	155.4	37.2	118.2	NM	
Services:					
Bioservices - Services	18.3	12.6	5.7	45 %	
Bioservices - Leases	0.2	1.8	(1.6)	(89)%	
Total Services revenues	18.5	14.4	4.1	28 %	
Contracts and grants	8.0	6.5	1.5	23 %	
Total revenues	300.4	164.3	136.1	83 %	
Operating expenses:					
Cost of Commercial Product sales	52.1	45.8	6.3	14 %	
Cost of MCM Product sales	62.2	55.4	6.8	12 %	
Cost of Bioservices	30.3	51.7	(21.4)	(41)%	
Research and development	15.1	40.7	(25.6)	(63)%	
Selling, general and administrative	84.7	101.3	(16.6)	(16)%	
Amortization of intangible assets	16.2	17.0	(0.8)	(5)%	
Total operating expenses	260.6	311.9	(51.3)	(16)%	
Income (loss) from operations	39.8	(147.6)	187.4	127 %	
Other income (expense):					
Interest expense	(24.3)	(17.9)	(6.4)	36 %	
Other, net	(3.4)	4.9	(8.3)	(169)%	
Total other income (expense), net	(27.7)	(13.0)	(14.7)	113 %	
Income (loss) before income taxes	12.1	(160.6)	172.7	108 %	
Income tax provision	3.1	25.6	(22.5)	(88)%	
Net income (loss)	\$ 9.0	\$ (186.2)	\$ 195.2	105 %	

NM - Not meaningful

Three Months Ended March 31, 2024 Compared with Three Months Ended March 31, 2023

Revenues and gross margin

(dollars in millions)	Three Months Ended March 31,		% Change
	2024	2023	
Total revenues	\$ 300.4	\$ 164.3	83 %
Contracts and grants	8.0	6.5	23 %
Total segment revenues ⁽¹⁾	\$ 292.4	\$ 157.8	85 %
Cost of Commercial Product sales	52.1	45.8	14 %
Cost of MCM Product sales	62.2	55.4	12 %
Cost of Bioservices	30.3	51.7	(41) %
Total cost of sales or services	144.6	152.9	(5) %
Total segment gross margin ⁽¹⁾	\$ 147.8	\$ 4.9	NM
Total segment gross margin % ⁽¹⁾	51 %	3 %	

⁽¹⁾ We define total segment revenues, which is a non-GAAP financial measure, as our total revenues, less contracts and grants revenue, which is also equal to the sum of the revenues of our reportable operating segments. We define total segment gross margin, which is a non-GAAP financial measure, as total segment revenues less our aggregate cost of sales or services. We define total segment gross margin percentage, which is a non-GAAP financial measure, as total segment gross margin as a percentage of total segment revenues. We believe that this non-GAAP operating measure, when reviewed collectively with our GAAP financial information, provides useful supplemental information to investors in assessing our operating performance.

NM - Not meaningful

Total revenues increased \$136.1 million, or 83%, to \$300.4 million for the three months ended March 31, 2024. The increase was due to increases in MCM Products revenue and Commercial Products revenue of \$118.2 million and \$12.3 million, respectively, coupled with increases in Services revenue of \$4.1 million and Contracts and grants revenue of \$1.5 million.

Total segment gross margin increased \$142.9 million to \$147.8 million for the three months ended March 31, 2024. Total segment gross margin percentage increased 48 percentage points to 51% for the three months ended March 31, 2024. The increase in total segment gross margin was due to increases in MCM Products gross margin of \$111.4 million, Services gross margin of \$25.5 million, and Commercial Products gross margin of \$6.0 million. Total segment gross margin and total segment gross margin percentage exclude Contracts and grants revenues because the related costs are R&D expenses.

See "Segment Results" for an expanded discussion of revenues and gross margin.

Unallocated corporate operating expenses

R&D Expenses

R&D expenses decreased \$25.6 million, or 63%, to \$15.1 million for the three months ended March 31, 2024. The decrease was primarily due to the sale of our development program for CHIKV VLP to Bavarian Nordic and reduction in related overhead costs, as well as a reduction in overhead costs driven by the headcount reductions as a result of restructuring. The decrease was partially offset by an increase in expense related to development activities for Ebanga™.

SG&A Expenses

SG&A expenses decreased \$16.6 million, or 16%, to \$84.7 million for the three months ended March 31, 2024. The decrease was primarily due to decreases in compensation and other employee costs as a result of the restructuring initiatives that began during the first quarter of 2023 and a reduction in professional services fees related to general corporate initiatives in the prior year, including organizational transformation consulting fees. These decreases were partially offset by an increase in marketing expenses related to the launch of OTC NARCAN® and higher legal services fees. SG&A expenses as a percentage of total revenue decreased 33 percentage points to 28% for the three months ended March 31, 2024.

Amortization of Intangible Assets

Amortization of intangible assets decreased \$0.8 million, or 5%, to \$16.2 million for the three months ended March 31, 2024. The decrease was primarily due to a decrease in amortization expense resulting from the intangibles sold as part of our travel health business to Bavarian Nordic in the second quarter of 2023.

Interest expense

Interest expense increased \$6.4 million, or 36%, to \$24.3 million for the three months ended March 31, 2024. The increase was primarily due to an increase in amortization of debt service costs related to fees incurred in connection with the Third and Fourth Amendments to Amended and Restated Credit Agreement, Waiver and First Amendment to Amended and Restated Collateral Agreement (the "Credit Agreement Amendments") and the Forbearance Agreement and Amendment, partially offset by lower interest costs on the Company's syndicated borrowings as a result of principal payments during 2023.

Other, net

Other, net went from \$4.9 million in income to \$3.4 million in expense for the three months ended March 31, 2024. The change of \$8.3 million, or 169%, is primarily attributable to lower interest income due to lower balances in our money market accounts, coupled with a write-off of an equity method investment.

Income tax provision

Income tax provision decreased \$22.5 million to \$3.1 million for the three months ended March 31, 2024. The decrease was primarily due to a change in jurisdictional mix of income and losses.

SEGMENT RESULTS**COMMERCIAL PRODUCTS SEGMENT**

(dollars in millions)	Commercial Products Segment			% Change
	2024	2023	Three Months Ended March 31,	
Revenues	\$ 118.5	\$ 106.2	\$ 118.5	12 %
Cost of sales	\$ 52.1	\$ 45.8	\$ 52.1	14 %
Gross margin ⁽¹⁾	\$ 66.4	\$ 60.4	\$ 66.4	10 %
Gross margin % ⁽¹⁾	56 %	57 %	56 %	57 %
Segment adjusted gross margin ⁽²⁾	\$ 66.4	\$ 60.4	\$ 66.4	10 %
Segment adjusted gross margin % ⁽²⁾	56 %	57 %	56 %	57 %

⁽¹⁾ Gross margin is calculated as revenues less cost of sales. Gross margin percentage is calculated as gross margin divided by revenues.

⁽²⁾ Segment adjusted gross margin, which is a non-GAAP financial measure, is calculated as gross margin plus restructuring costs and non-cash items related to changes in fair value of contingent consideration. Segment adjusted gross margin percentage, which is a non-GAAP financial measure, is calculated as segment adjusted gross margin divided by revenues. The Company's management utilizes segment adjusted gross margin and segment adjusted gross margin percentage for purposes of evaluating our ongoing operations and for internal planning and forecasting purposes. We believe that these non-GAAP operating measures, when reviewed collectively with our GAAP financial information, provide useful supplemental information to investors in assessing our operating performance.

Three Months Ended March 31, 2024 Compared with Three Months Ended March 31, 2023**NARCAN®**

NARCAN® sales increased \$18.1 million, or 18%, to \$118.5 million for the three months ended March 31, 2024. The increase was primarily driven by higher branded NARCAN® sales to U.S. public interest channels and sales of OTC NARCAN®, partially offset by lower Canadian retail sales of branded NARCAN®.

Other Commercial Products

Other commercial products sales decreased \$5.8 million, or 100%, to no sales for the three months ended March 31, 2024. The Company sold Vivotif® and Vaxchora® to Bavarian Nordic as part of our travel health business during the second quarter of 2023.

Cost of Product Sales and Gross Margin

Cost of Commercial Product sales increased \$6.3 million, or 14%, to \$52.1 million for the three months ended March 31, 2024. The increase was primarily due to higher sales of OTC NARCAN®, which launched during the third quarter of 2023, partially offset by lower Canadian retail sales of branded NARCAN®.

Commercial Products gross margin increased \$6.0 million, or 10%, to \$66.4 million for the three months ended March 31, 2024. Commercial Products gross margin percentage decreased 1 percentage point to 56% for the three months ended March 31, 2024. The decrease was largely due to the higher sales of OTC NARCAN® and lower branded NARCAN® sales. Commercial Products segment adjusted gross margin is consistent with gross margin.

MCM PRODUCTS SEGMENT

(dollars in millions)	MCM Products Segment		
	2024	2023	% Change
Revenues	\$ 155.4	\$ 37.2	NM
Cost of sales	\$ 62.2	\$ 55.4	12 %
Gross margin ⁽¹⁾	\$ 93.2	\$ (18.2)	NM
Gross margin % ⁽¹⁾	60 %	(49)%	
Add back:			
Changes in fair value of contingent consideration	0.5	0.3	67 %
Restructuring costs	(0.1)	2.0	(105 %)
Segment adjusted gross margin ⁽²⁾	\$ 93.6	\$ (15.9)	NM
Segment adjusted gross margin % ⁽²⁾	60 %	(43)%	

⁽¹⁾ Gross margin is calculated as revenues less cost of sales. Gross margin percentage is calculated as gross margin divided by revenues.

⁽²⁾ Segment adjusted gross margin, which is a non-GAAP financial measure, is calculated as gross margin plus restructuring costs and non-cash items related to changes in fair value of contingent consideration. Segment adjusted gross margin percentage, which is a non-GAAP financial measure, is calculated as segment adjusted gross margin divided by revenues. The Company's management utilizes segment adjusted gross margin and segment adjusted gross margin percentage for purposes of evaluating our ongoing operations and for internal planning and forecasting purposes. We believe that these non-GAAP operating measures, when reviewed collectively with our GAAP financial information, provide useful supplemental information to investors in assessing our operating performance.

NM - Not meaningful

Anthrax MCM

Anthrax MCM sales increased \$34.0 million, or 155%, to \$55.9 million for the three months ended March 31, 2024. The increase reflects the impact of timing of sales related to CYFENDUS® and BioThrax®. Anthrax vaccine product sales are primarily made under annual purchase options exercised by the USG. Fluctuations in revenues result from the timing of the exercise of annual purchase options, the timing of USG purchases, the availability of governmental funding and Company delivery of orders that follow.

Smallpox MCM

Smallpox MCM sales increased \$43.0 million to \$50.2 million for the three months ended March 31, 2024. The increase was primarily due to higher VIGIV and ACAM2000[®] sales due to timing. Fluctuations in revenues from Smallpox MCM result from the timing of the exercise of annual purchase options in the existing procurement contracts, the timing of USG purchases, the availability of governmental funding and Company delivery of orders that follow.

Other Products

Other Products sales increased \$41.2 million to \$49.3 million for the three months ended March 31, 2024. The increase was primarily due to higher BAT and RSDL[®] product sales due to timing.

Cost of MCM Product Sales and Gross Margin

Cost of MCM product sales increased \$6.8 million, or 12%, to \$62.2 million for the three months ended March 31, 2024. The increase was primarily due to higher sales of BAT[®], VIGIV, BioThrax[®] and CYFENDUS[®], partially offset by a decrease in shutdown costs.

MCM Product gross margin increased \$111.4 million to \$93.2 million for the three months ended March 31, 2024. MCM Product gross margin percentage increased 109 percentage points to 60% for the three months ended March 31, 2024. The increase in gross margin percentage was primarily due to a favorable sales mix which was weighted more heavily towards higher margin products and a decrease in shutdown costs compared to the prior quarter. MCM Product segment adjusted gross margin excludes the impacts of non-cash items related to changes in the fair value of contingent consideration of \$0.5 million and restructuring costs of \$(0.1) million.

SERVICES SEGMENT

(dollars in millions)	Services Segment		
	2024	2023	% Change
Revenues	\$ 18.5	\$ 14.4	28 %
Cost of services	\$ 30.3	\$ 51.7	(41 %)
Gross margin⁽¹⁾	\$ (11.8)	\$ (37.3)	68 %
Gross margin %⁽¹⁾	(64)%	(259)%	
Add back:			
Restructuring costs	(0.2)	—	NM
Segment adjusted gross margin⁽²⁾	\$ (12.0)	\$ (37.3)	68 %
Segment adjusted gross margin %⁽²⁾	(65)%	(259)%	

⁽¹⁾ Gross margin is calculated as revenues less cost of sales. Gross margin % is calculated as gross margin divided by revenues.

⁽²⁾ Segment adjusted gross margin, which is a non-GAAP financial measure, is calculated as gross margin plus restructuring costs and non-cash items related to changes in fair value of contingent consideration. Segment adjusted gross margin percentage, which is a non-GAAP financial measure, is calculated as segment adjusted gross margin divided by revenues. The Company's management utilizes segment adjusted gross margin and segment adjusted gross margin percentage for purposes of evaluating our ongoing operations and for internal planning and forecasting purposes. We believe that these non-GAAP operating measures, when reviewed collectively with our GAAP financial information, provide useful supplemental information to investors in assessing our operating performance.

NM - Not meaningful

Three Months Ended March 31, 2024 Compared with Three Months Ended March 31, 2023

Services Revenues

Bioservices revenues increased \$5.7 million, or 45%, to \$18.3 million for the three months ended March 31, 2024. The increase was driven by an increase in production at the Company's Camden facility, partially offset by decreases in production at the Company's Canton and Winnipeg facilities.

Bioservices lease revenues decreased \$1.6 million, or 89%, to \$0.2 million for the three months ended March 31, 2024. The decrease was related to the completion of a lease for a Bioservices customer at our Canton facility.

Cost of Services and Gross Margin

Cost of services decreased \$21.4 million, or 41%, to \$30.3 million for the three months ended March 31, 2024. The decrease was primarily due to a reduction in overhead costs at the Company's Camden and Bayview facilities, coupled with no production activities at the Company's Canton facility. The decrease in costs at the Camden facility was partially offset by increases in production activity following the remediation of matters related to the FDA's warning letter regarding the Camden facility, which was closed out in October 2023.

Services gross margin increased \$25.5 million, or 68%, to \$(11.8) million for the three months ended March 31, 2024. Services gross margin percentage increased 195 percentage points to (64)% for the three months ended March 31, 2024. The increase was primarily due to a reduction in overhead costs at the Company's Camden and Bayview facilities, coupled with an increase in production at our Camden facility due to the remediation of matters related to the FDA's warning letter referenced above. Services segment adjusted gross margin excludes the impacts of restructuring costs of \$(0.2) million.

OTHER REVENUE

Three Months Ended March 31, 2024 Compared with Three Months Ended March 31, 2023

Contracts and Grants

Contracts and grants revenue increased \$1.5 million, or 23%, to \$8.0 million for the three months ended March 31, 2024. The increase was due to development work in connection with Ebanga™, partially offset by the close out of other development initiatives.

FINANCIAL CONDITION, LIQUIDITY AND CAPITAL RESOURCES

Our financial condition is summarized as follows:

	March 31, 2024	December 31, 2023	Change %
(dollars in millions)			
Financial assets:			
Cash and cash equivalents	\$ 78.5	\$ 111.7	(30) %
Borrowings:			
Debt, current portion	\$ 459.2	\$ 413.7	11 %
Debt, net of current portion	446.7	446.5	— %
Total borrowings	\$ 905.9	\$ 860.2	5 %
Working capital:			
Current assets	\$ 682.4	\$ 679.5	— %
Current liabilities	630.2	651.3	(3) %
Total working capital	\$ 52.2	\$ 28.2	85 %

[Principal Sources of Capital Resources](#)

We have historically financed our operating and capital expenditures through existing cash and cash equivalents, cash from operations, development contracts and grant funding and borrowings under our Revolving Credit Facility, our Term Loan Facility, and other lines of credit we have established from time to time. We also obtain financing from the sale of our common stock upon exercise of stock options and participation in an at-the-market equity offering program that we entered into on May 17, 2023 (the "ATM Program"). As of March 31, 2024, we had unrestricted cash and cash equivalents of \$78.5 million and remaining capacity under our Revolving Credit Facility of \$0.3 million.

[Going Concern](#)

The consolidated financial statements have been prepared on the going concern basis of accounting, which assumes the Company will continue to operate as a going concern and which contemplates the realization of assets and the satisfaction of liabilities and commitments in the normal course of business.

As of March 31, 2024, there was \$264.2 million outstanding on the Company's senior revolving credit facility ("Revolving Credit Facility") and \$194.2 million on the senior term loan facility ("Term Loan Facility" and together with the Revolving Credit Facility, the "Senior Secured Credit Facilities") that mature in May 2025 and the Senior Credit Facilities were subject to a forbearance agreement as described below, with respect to the Company's noncompliance with certain operational and financial covenants. As of March 31, 2024, the Company had \$78.5 million in cash and cash equivalents. As a result of these factors, the Company determined that there is substantial doubt about the Company's ability to continue as a going concern within one year after the date that the financial statements are issued. The evaluation considered the potential mitigating effects of management's plans that have not been fully implemented. Management has evaluated the mitigating effects of its plans to determine if it is probable that (1) the plans will be effectively implemented within one year after the date the financial statements are issued, and (2) when implemented, the plans will mitigate the relevant conditions or events that raise substantial doubt about the entity's ability to continue as a going concern. Management's plans include (A) further amending the Senior Secured Credit Facilities, and (B) improving operating performance, reducing working capital and the potential of the sale of assets to pay down the Senior Secured Credit Facilities before they become due. As neither plan is in the complete control of management, neither is probable of occurring. In this regard, management may not be able to further amend the Senior Secured Facilities or find a buyer for the assets it is willing to divest and may not be able to close on any asset sale for which management is able to reach an agreement with a buyer. As a result, the Company may be unable to meet its obligations as they become due. In addition, any asset sales that are completed could have potential negative impacts on the Company's future operating cash flows and profitability.

[Debt Covenants](#)

The Senior Secured Credit Facilities mature in May 2025, and provide for (1) revolving credit commitments, (2) a term loan, and (3) the issuance of commercial letters of credit. As of March 31, 2024, the Company had \$458.4 million outstanding under the Senior

Secured Credit Facilities. As of March 31, 2024, the Company was not in compliance with the minimum consolidated EBITDA covenant under the Senior Secured Credit Facilities and did not expect to satisfy a covenant requiring it to raise not less than \$75.0 million through issuance of equity and/or unsecured indebtedness by April 30, 2024. In addition, the Company was required to deliver audited annual financial statements without a "going concern" explanatory paragraph with respect to its financial statements for the year ended December 31, 2023, which was not achieved. However, on February 29, 2024, the requisite lenders agreed to enter into a Forbearance Agreement and Sixth Amendment to Amended and Restated Credit Agreement (the "Forbearance Agreement and Amendment") with the Company, which included a limited waiver of certain events of default, including those that resulted from (a) any violation of the financial covenants set forth in the Senior Secured Credit Facilities with respect to the fiscal quarter ending December 31, 2023 and the fiscal quarter ending March 31, 2024 and (b) the going concern explanatory paragraph contained in the audited financial statements for the year ended December 31, 2023. This forbearance period (the "Forbearance Period") expired on April 30, 2024.

On April 29, 2024, the requisite lenders agreed to enter into a Consent, Waiver and Seventh Amendment to the Amended and Restated Credit Agreement (the "Seventh Amendment") with the Company. The Seventh Amendment, among other things: (a) reduces available commitments under the Revolving Credit Facility to \$270.0 million through July 30, 2024, to \$225.0 million from July 31, 2024 through October 30, 2024, and to \$200.0 million on October 31, 2024 and thereafter; (b) amends the interest rate benchmark in the definition of Applicable Margin from (i) 5.00% per annum to 7.00% per annum with respect to Base Rate Loans and (ii) 6.50% per annum to 8.50% per annum with respect to SOFR Loans, RFR Loans and Eurocurrency Rate Loans; and (c) requires the Company to raise equity or unsecured indebtedness of at least \$85.0 million by July 31, 2024 (or such later date on or before September 29, 2024 as agreed to by the Administrative Agent), provided that such requirement will be reduced by the aggregate net cash proceeds received from certain dispositions that are applied to reduce amounts outstanding under the Revolving Credit Facility. There is no guarantee the Company will be able to meet the capital raise requirement by the stated deadline.

In addition, pursuant to the Seventh Amendment, the Company is obligated to apply 100% of the aggregate net cash proceeds received from certain dispositions to the prepayment of amounts outstanding under the Revolving Credit Facility, except where such proceeds exceed \$85,000,000, in which case such mandatory prepayment of the Revolving Credit Facility will no longer be required. Mandatory prepayment of the Term Loan Facility will not be required unless and until the aggregate net proceeds from such dispositions exceed \$85,000,000, at which point 100% of such proceeds must be used toward repayment of amounts outstanding under the Term Loan Facility.

Under the Seventh Amendment, the Company is also subject to (a) a monthly minimum consolidated EBITDA covenant through May 15, 2025 and a monthly maximum capital expenditures covenant through March 31, 2025, (b) a minimum liquidity requirement, and (c) additional financial statement reporting and business plan forecast obligations. In connection with the entry into the Seventh Amendment, the Company paid an amendment fee of an aggregate amount equal to 0.5% of the total credit exposure as of the Seventh Amendment effective date and will be required to pay an additional amendment fee of 1.0% of total credit exposure at December 1, 2024 and each month thereafter. The Senior Secured Credit Facilities and the Company's other debt facilities are described in more detail below in Note 9, "Debt."

If we default under the Senior Secured Credit Facilities, the lenders would have the right to accelerate the repayment of borrowings under the Senior Secured Credit Facilities, which would result in a cross-default of the Company's obligations under the 3.875% Senior Unsecured Notes due 2028 (the "Senior Unsecured Notes"). If the Company would be unable to obtain additional waivers or forbearance of such covenants or defaults, to successfully renegotiate the terms of the Senior Secured Credit Facilities, or to cure the potential covenant breach or default, and the lenders enforced one or more of their rights upon default and/or the default resulted in a cross-default under the Senior Unsecured Notes, the Company would be unable to meet its obligations under those agreements and would likely be forced into insolvency proceedings.

Based on the facts and circumstances described above, there can be no assurance that the Company would be able to comply with its debt covenants in the future. As a result, the Company continues to evaluate a number of factors related to its ability to continue as a going concern, including its ability to comply with the terms and operating and financial covenants required by the Senior Secured Credit Facilities, its ability to satisfy the capital raise requirement, other market conditions, economic conditions, particularly in the pharmaceutical and biotechnology industry, and disruptions or volatility caused by factors such as regional conflicts, inflation, and supply chain disruptions. The Company has engaged legal and financial advisors to assist with a comprehensive review of alternatives to enhance its capital structure, which may include taking steps to cure any potential defaults or seeking forbearance, waivers, further cost reductions, asset sales, restructurings or other alternatives to avoid an event of default.

At-the-Market Equity Offering Facility

The Company may, from time to time, sell up to \$150.0 million aggregate gross sales price of shares of its common stock through Evercore Group L.L.C. and RBC Capital Markets, LLC, as sales agents, under the ATM Program that we entered into on May 17.

2023. There were no sales of the Company's common stock under the ATM Program during the three months ended March 31, 2024. As a result of the delayed filing of certain of the Company's periodic reports with the SEC in 2023, the Company is not currently eligible to sell any shares under the ATM Program until the Company have timely filed certain periodic reports required under the Securities Exchange Act of 1934 for 12 consecutive months. Between the entry into the ATM Program and March 31, 2024, we sold 1.1 million shares of the Company's common stock under the ATM Program for gross proceeds of \$9.1 million, representing an average price of \$8.22 per share. As of March 31, 2024, \$140.9 million aggregate gross sales price of shares of the Company's common stock remains available for issuance under the ATM Program. The Company intends to use proceeds obtained from the sale of shares under the ATM Program for general corporate purposes.

Cash Flows

The following table provides information regarding our cash flows for the three months ended March 31, 2024 and 2023:

(in millions)	Three Months Ended March 31,	
	2024	2023
Net cash provided by (used in):		
Operating activities	\$ (62.6)	\$ (184.0)
Investing activities	(10.8)	(15.1)
Financing activities	40.7	(10.5)
Effect of exchange rate changes on cash, cash equivalents and restricted cash	—	(0.2)
Net change in cash, cash equivalents and restricted cash	\$ (32.7)	\$ (209.8)

Operating Activities:

Net cash used in operating activities for the three months ended March 31, 2024 decreased \$121.4 million as compared with the three months ended March 31, 2023. The decrease in net cash used in operating activities was primarily due to an increase in revenues during the period, partially offset by negative working capital changes of \$97.5 million, driven by cash collection not keeping pace with the increase in revenues and a decrease in accrued compensation balances.

Investing Activities:

Net cash used in investing activities for the three months ended March 31, 2024 decreased \$4.3 million as compared with the three months ended March 31, 2023. The decrease in net cash used in investing activities was attributable due to a \$4.3 million reduction in purchases of property, plant and equipment.

Financing Activities:

Net cash provided by financing activities for the three months ended March 31, 2024 increased \$51.2 million as compared with the three months ended March 31, 2023. The increase in net cash provided by financing activities was primarily due to an increase in proceeds of \$50.0 million under our Revolving Credit Facility, a reduction of \$4.5 million in principal payments on our Term Loan Facility and a \$1.7 million reduction in taxes paid for share-based comp activity, partially offset by increased principal payments of \$5.0 million on our Revolving Credit Facility.

Debt

As of March 31, 2024, the Company has \$909.2 million of fixed and variable rate debt with varying maturities. See Note 9, "Debt" in the Notes to Condensed Consolidated Financial Statements in Part I, Item 1, of this Form 10-Q for further discussion.

Uncertainties and Trends Affecting Funding Requirements

We expect to continue to fund our short-term and long-term anticipated operating expenses, capital expenditures and debt service requirements from the following sources:

- existing cash and cash equivalents;
- net proceeds from the sale of our products and Bioservices;
- development contracts and grant funding;
- proceeds from the sale of our common stock through the ATM Program;

- proceeds from potential asset sales; and
- our Senior Secured Credit Facilities and any replacement or other lines of credit we may establish from time to time.

There are numerous risks and uncertainties associated with product sales and with the development and commercialization of our product candidates. We may seek additional external financing to provide additional financial flexibility. Our future capital requirements will depend on many factors, including (but not limited to):

- the level, timing and cost of product sales and Bioservices;
- the extent to which we acquire or invest in and integrate companies, businesses, products or technologies;
- the acquisition of new facilities and capital improvements to new or existing facilities;
- the payment obligations under our indebtedness;
- the scope, progress, results and costs of our development activities;
- our ability to obtain funding from collaborative partners, government entities and non-governmental organizations for our development programs; and
- the costs of commercialization activities, including product marketing, sales and distribution.

If our capital resources are insufficient to meet our future capital requirements, we will need to finance our cash needs through public or private equity or debt offerings, bank loans, collaboration and licensing arrangements, cost reductions, assets sales or a combination of these options.

If we raise funds by issuing equity securities, including through the ATM Program, our stockholders may experience dilution. Public or bank debt financing, if available, may involve agreements that include covenants, like those contained in our Senior Unsecured Notes and the Senior Secured Credit Facilities, which could limit or restrict our ability to take specific actions, such as incurring additional debt, making capital expenditures, pursuing acquisition opportunities, buying back shares or declaring dividends. If we raise funds through collaboration and licensing arrangements with third parties, it may be necessary to relinquish valuable rights to our technologies or product candidates or grant licenses on terms that may not be favorable to us.

Economic conditions, including market volatility and adverse impacts on financial markets, may make it more difficult to obtain financing on attractive terms, or at all. Any new debt funding, if available, may be on terms less favorable to us than our Senior Secured Credit Facilities or the Senior Unsecured Notes. If financing is unavailable or lost, our business, operating results, financial condition and cash flows would be adversely affected, and we could be forced to delay, reduce the scope of or eliminate many of our planned activities.

Unused Credit Capacity

Available room under the Revolving Credit Facility as of March 31, 2024 and December 31, 2023 was:

(in millions)	March 31, 2024	December 31, 2023
Total Capacity	\$ 270.0	\$ 300.0
Less:		
Outstanding Letters of Credit	5.5	0.5
Outstanding Indebtedness	264.2	219.2
Unused Capacity	\$ 0.3	\$ 80.3

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

For a discussion of additional risks arising from our operations, see the Company's Annual Report on Form 10-K for the year ended December 31, 2023, under the heading "Item 1A. Risk Factors" in addition to updates contained in "Item 1A-Risk Factors" of this Quarterly Report on Form 10-Q.

Market risk

We have interest rate and foreign currency market risk. Because of the short-term maturities of our cash and cash equivalents, we believe that an increase in market rates would likely not have a significant impact on the realized value of our investments.

Interest rate risk

We have debt with a mix of fixed and variable rates of interest and we are satisfied with the current fix-float mix of the Company's debt portfolio. Floating rate debt carries interest based generally on the eurocurrency rate, as defined in our Amended and Restated Credit Agreement, as amended from time to time, plus an applicable margin. Increases in interest rates could result in an increase in interest payments for our floating rate debt. See Note 9, "Debt" in the Notes to Consolidated Financial Statements in Part I, Item 1. of this Form 10-Q.

From time to time, we may use derivative instruments to manage our interest rate risk and market risk exposure.

We have assessed our exposure to changes in interest rates by analyzing the sensitivity to our operating results assuming various changes in market interest rates. A hypothetical increase of one percentage point in the eurocurrency rate as of March 31, 2024 would increase our interest expense by approximately \$4.1 million annually.

Foreign currency exchange rate risk

We have exposure to foreign currency exchange rate fluctuations worldwide and primarily with respect to the Euro, Canadian dollar, Swiss franc and British pound. We manage our foreign currency exchange rate risk primarily by either entering into foreign currency hedging transactions or incurring operating expenses in the local currency in the countries in which we operate, to the extent practical. We currently do not hedge all of our foreign currency exchange exposure and the movement of foreign currency exchange rates could have an adverse or positive impact on our results of operations.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of disclosure controls and procedures

Our management, with the participation of our chief executive officer and chief financial officer, evaluated the effectiveness of our disclosure controls and procedures as of March 31, 2024. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act"), means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company's management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of March 31, 2024, our chief executive officer and chief financial officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in internal control over financial reporting

There have been no changes in our internal control over financial reporting, as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act that occurred during the three months ended March 31, 2024 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

See Note 15, "Litigation" in Part I, Item 1, of this Quarterly Report on Form 10-Q.

ITEM 1A. RISK FACTORS

The Company's Annual Report on Form 10-K for the year ended December 31, 2023 contains disclosure regarding the risks and uncertainties related to the Company's business under the heading Item 1A. Risk Factors. There have been no material changes to the Company's risk factors as presented in the Company's 2023 Form 10-K, except as described below:

We have incurred significant indebtedness in connection with our acquisitions and servicing our debt requires a significant amount of cash. We may not have sufficient cash flow from our operations to pay our substantial debt.

Our ability to make scheduled payments of the principal of, to pay interest on or to further refinance, our indebtedness depends on our future performance, which is subject to economic, financial, competitive and other factors beyond our control. We may also seek additional debt financing to support our ongoing activities or to provide additional financial flexibility. Debt financing can have significant adverse consequences for our business, including:

- requiring us to dedicate a substantial portion of cash flows from operations to payment on our debt, which would reduce available funds for other corporate initiatives;
- increasing the amount of interest that we have to pay on debt with variable interest rates, if market rates of interest increase, to the extent we are unable to offset such risk through our hedging instruments;
- subjecting us, as under our Senior Secured Credit Facilities and the indenture governing the Senior Unsecured Notes, to restrictive covenants that reduce our ability to take certain corporate actions, acquire companies, products or technology, or obtain further debt financing;
- requiring us to pledge our assets as collateral, which could limit our ability to obtain additional debt financing;
- limiting our flexibility in planning for, or reacting to, general adverse economic and industry conditions; and
- placing us at a competitive disadvantage compared to our competitors that have less debt, better debt servicing options or stronger debt servicing capacity.

We may not have sufficient funds or be able to obtain additional financing to pay the amounts due under our indebtedness. In addition, failure to comply with the covenants under our Senior Secured Credit Facilities and other debt agreements, including the maintenance of a specified consolidated net leverage ratio, debt service coverage ratio, consolidated EBITDA level, minimum liquidity level, maximum capital expenditure level and required liquidity raise under our Senior Secured Credit Facilities, the additional terms and conditions imposed by the Seventh Amendment could result in an event of default under those agreements. An event of default could result in the acceleration of amounts due under a particular debt agreement and a cross-default and acceleration under other debt agreements, and we may not have sufficient funds to pay or be able to obtain additional financing to make any accelerated payments.

Our current indebtedness restricts and any additional debt financing may restrict the operation of our business and limit the cash available for investment in our business operations.

The Senior Secured Credit Facilities include the Term Loan Facility, which had an outstanding principal balance of \$194.2 million as of March 31, 2024, and the ability to borrow up to \$270.0 million under our Revolving Credit Facility, under which we had \$264.2 million of outstanding borrowings as of March 31, 2024. The available commitments under our Revolving Credit Facility will decrease to \$225.0 million on July 31, 2024, and \$200.0 million on October 31, 2024. In addition, on August 7, 2020, we completed an offering of \$450.0 million aggregate principal amount of Senior Unsecured Notes. We may also seek additional debt financing to support our ongoing activities or to provide additional financial flexibility. Debt financing can have significant adverse consequences for our business, including:

- the level, timing and cost of product sales and bioservices;
- the extent to which we acquire or invest in and integrate companies, businesses, products or technologies;
- the acquisition of new facilities and capital improvements to new or existing facilities;
- the payment obligations under our indebtedness;
- the scope, progress, results and costs of our development activities;
- our ability to obtain funding from collaborative partners, government entities and non-governmental organizations for our development programs;
- the extent to which we repurchase common stock under any future share repurchase program; and
- the costs of commercialization activities, including product marketing, sales and distribution.

In addition, our Senior Secured Credit Facilities and our Senior Unsecured Notes each contain cross-default provisions whereby a default under one agreement would likely result in cross defaults under agreements covering other indebtedness. For example, if we default under the Senior Secured Credit Facilities, the lenders would have the right to accelerate the repayment of borrowings under the Senior Secured Credit Facilities, which would result in a cross-default and acceleration of the Company's obligations under the Senior Unsecured Notes. The occurrence of a default under any of these arrangements would permit the holders of the notes or the lenders under our Senior Secured Credit Facilities to declare all amounts outstanding under those borrowing arrangements to be immediately due and payable, and there is no assurance that we would have sufficient funds to satisfy any such accelerated obligations.

We require significant additional funding to be able to continue as a going concern and we may be unable to raise capital when needed or on acceptable terms, which would harm our ability to grow our business, and our results of operations and financial condition. In addition, any capital we raise may result in dilution to our current stockholders.

As of March 31, 2024, we had unrestricted cash and cash equivalents of \$78.5 million and remaining capacity under our Revolving Credit Facility of \$0.3 million. Also as of March 31, 2024, there was \$264.2 million outstanding on our Revolving Credit Facility and \$194.2 million on our Term Loan Facility that mature in May 2025. As of March 31, 2024, we were not in compliance with the minimum consolidated EBITDA covenant under the Senior Secured Credit Facilities and did not expect to satisfy a covenant requiring us to raise not less than \$75.0 million through the issuance of equity and/or unsecured indebtedness by April 30, 2024. In addition, we were required to deliver audited annual financial statements without a "going concern" explanatory paragraph with respect to our financial statements for the year ended December 31, 2023, which was not achieved. As a result of these factors, the Company determined that there is substantial doubt about the Company's ability to continue as a going concern within one year after the date that the financial statements included in this Quarterly Report on Form 10-Q were issued.

On April 29, 2024, the requisite lenders agreed to enter into the Seventh Amendment with the Company. The Seventh Amendment, among other things: (a) reduces available commitments under the Revolving Credit Facility from \$270.0 million through July 30, 2024, to \$225.0 million from July 31, 2024 through October 30, 2024, and to \$200.0 million on October 31, 2024 and thereafter; (b) amends the interest rate benchmark in the definition of Applicable Margin from (i) 5.00% per annum to 7.00% per annum with respect to Base Rate Loans and (ii) 6.50% per annum to 8.50% per annum with respect to SOFR Loans, RFR Loans and Eurocurrency Rate Loans; and (c) in lieu of the \$75.0 million capital raise referenced above, requires the Company to raise equity or unsecured indebtedness of at least \$85.0 million by July 31, 2024 (or such later date on or before September 29, 2024 as agreed to by the Administrative Agent), provided that such requirement will be reduced by the aggregate net cash proceeds received from certain dispositions that are applied to reduce amounts outstanding under the Revolving Credit Facility. Under the Seventh Amendment, the Company is also subject to (a) a monthly minimum consolidated EBITDA covenant through May 15, 2025 and a monthly maximum capital expenditures covenant through March 31, 2025, (b) a minimum liquidity requirement and (c) additional financial statement reporting and business plan forecast obligations.

The Company may be unable to comply with debt covenants in future periods without additional sources of liquidity or future amendments to or forbearance arrangements under the Credit Agreement. We will need to obtain substantial additional funding in connection with our continuing operations, which cannot be assured.

If our capital resources are insufficient to meet our future capital requirements, we will need to finance our cash needs through public or private equity or debt offerings, bank loans or collaboration and licensing arrangements. In August 2021, we filed a shelf registration statement, which immediately became effective under SEC rules. As a result of the delayed filing of certain of our periodic reports with the SEC, we are not currently eligible to register the offer and sale of our securities using the shelf registration statement or sell any shares under the ATM Program, and we will not become eligible until we have timely filed certain periodic reports required under the Exchange Act for 12 consecutive calendar months. There can be no assurance that we will be eligible to file a shelf registration statement or to have such a shelf registration statement become effective after such period, which may inhibit our ability to access the capital markets to raise funds.

If we raise funds by issuing equity securities, including through our ATM Program, our stockholders may experience dilution. Debt financing, if available, may involve agreements that include covenants, like those contained in our Senior Secured Credit Facilities and the indenture governing the Senior Unsecured Notes, limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, pursuing acquisition opportunities or declaring dividends. If we raise funds through collaboration and licensing arrangements with third parties, it may be necessary to relinquish valuable rights to our technologies or product candidates or grant licenses on terms that may not be favorable to us. Our Senior Secured Credit Facilities as well as the indenture governing the Senior Unsecured Notes restrict our ability to incur additional indebtedness.

Economic conditions may make it difficult to obtain financing on attractive terms, or at all. If financing is unavailable or lost, our business, operating results, financial condition and cash flows would be adversely affected, and we could be forced to delay, reduce the scope of or eliminate many of our planned activities.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES, USE OF PROCEEDS, AND ISSUER PURCHASES OF EQUITY SECURITIES**Recent sales of unregistered securities**

Not applicable.

Use of proceeds

Not applicable.

Purchases of equity securities

Not applicable.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

Not applicable.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

During the three months ended March 31, 2024, none of the Company's directors or Section 16 reporting officers adopted or terminated any Rule 10b5-1 trading arrangement or non-Rule 10b5-1 trading arrangement (as such terms are defined in Item 408 of Regulation S-K).

ITEM 6. EXHIBITS

The exhibits required to be filed by Item 601 of Regulation S-K are listed in the Exhibit Index immediately preceding the exhibits hereto.

Exhibit Index

Exhibit Number	Description
10.1 #	Seventh Amendment to the Amended and Restated Credit Agreement, dated April 29, 2024, among Emergent BioSolutions Inc., the guarantors party thereto, the lenders party thereto, and Wells Fargo Bank, National Association, as administrative agent.
10.2 #	Award/Contract, effective January 9, 2024 (BioThrax IDIQ Contract), from the United States Department of Defense to Emergent Biodefense Operations Lansing LLC.
10.3 #	Delivery Order 1, effective January 22, 2024 to the BioThrax IDIQ Contract.
10.4 #	Modification No. 1, effective February 13, 2024 to the BioThrax IDIQ Contract.
10.5 #	Modification No. 2, effective March 21, 2024 to the BioThrax IDIQ Contract.
31.1 #	Certification of the Chief Executive Officer, pursuant to Exchange Act Rule 13a-14(a).
31.2 #	Certification of the Chief Financial Officer pursuant to Exchange Act Rule 13a-14(a).
32.1 #	Certification of the Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2 #	Certification of the Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101 #	The following financial information related to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2024, formatted in iXBRL (Inline Extensible Business Reporting Language): (i) the Condensed Consolidated Balance Sheets, (ii) the Condensed Consolidated Statements of Operations, (iii) the Condensed Consolidated Statements of Comprehensive Income (Loss), (iv) the Condensed Consolidated Statements of Cash Flows, (v) the Condensed Consolidated Statement of Changes in Stockholders' Equity; and (vi) the related Notes to the Condensed Consolidated Financial Statements.
104 #	Cover Page Interactive Data File, formatted in iXBRL and contained in Exhibit 101.
#	Filed herewith.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

EMERGENT BIOSOLUTIONS INC.

By: /s/JOSEPH C. PAPA

Joseph C. Papa
President, Chief Executive Officer and Director
(Principal Executive Officer)

Date: May 1, 2024

By: /s/RICHARD S. LINDAHL

Richard S. Lindahl
Executive Vice President, Chief Financial Officer and Treasurer
(Principal Financial and Accounting Officer)

Date: May 1, 2024

CONSENT, WAIVER AND SEVENTH AMENDMENT TO AMENDED AND RESTATED CREDIT AGREEMENT

CONSENT, WAIVER AND SEVENTH AMENDMENT TO AMENDED AND RESTATED CREDIT AGREEMENT (this “Amendment”), dated as of April 29, 2024, among EMERGENT BIOSOLUTIONS INC., a Delaware corporation (the “Borrower”), the Guarantors (as defined in the Credit Agreement referred to below) party hereto, the Consenting Lenders (as defined below), and WELLS FARGO BANK, NATIONAL ASSOCIATION, as administrative agent (the “Administrative Agent”). Unless otherwise indicated, all capitalized terms used herein and not otherwise defined herein shall have the respective meanings provided such terms in the Credit Agreement referred to below.

W I T N E S S E T H:

WHEREAS, the Borrower, the lenders party thereto from time to time (the “Lenders”) and the Administrative Agent have entered into that certain Amended and Restated Credit Agreement, dated as of October 15, 2018 (as amended by the First Amendment to Amended and Restated Credit Agreement dated as of June 27, 2019, as further amended by the Second Amendment to Amended and Restated Credit Agreement dated as of August 7, 2020, as further amended by the Consent, Limited Waiver, Third Amendment to Amended and Restated Credit Agreement dated as of February 14, 2023, as further amended by the Fourth Amendment to Amended and Restated Credit Agreement, Waiver and First Amendment to Amended and Restated Collateral Agreement dated as of May 15, 2023 (the “Fourth Amendment”), as further amended by the Fifth Amendment to Amended and Restated Credit Agreement, dated as of July 14, 2023, and as further amended by that certain Forbearance Agreement and Sixth Amendment to Amended and Restated Credit Agreement, dated as of February 29, 2024 (the “Forbearance Agreement”), and as may further be amended, restated, amended and restated, supplemented or otherwise modified prior to the date hereof the “Existing Credit Agreement”; the Existing Credit Agreement as amended by this Amendment, the “Credit Agreement”);

WHEREAS, in connection with the Existing Credit Agreement, the Credit Parties entered into that certain Amended and Restated Collateral Agreement, dated as of October 15, 2018 (as amended, restated, amended and restated, supplemented or otherwise modified prior to the date hereof, the “Existing Collateral Agreement”; the Existing Collateral Agreement, as amended by this Amendment, the “Collateral Agreement”);

WHEREAS, pursuant to the Forbearance Agreement, the Administrative Agent and the Lenders agreed to forbear from exercising rights and remedies under the Existing Credit Agreement and the other Loan Documents arising from the occurrence and continuation of the Specified Events of Default (as such term is defined in the Forbearance Agreement) during the Forbearance Period, which Forbearance Period will expire on the Scheduled Termination Date (as such term is defined in the Forbearance Agreement), on the terms and conditions set forth in the Forbearance Agreement;

WHEREAS, the Administrative Agent and the Lenders agreed to extend the deadline for selection of the final bidder or bidders for the applicable portion of the Designated Sale Process set forth in Section 4(c)(iii) of the Forbearance Agreement to the Scheduled Termination Date;

WHEREAS, the Borrower has notified the Lenders and the Administrative Agent the Credit Parties intend to dispose of (i) [**] and (ii) [**] together with the [**], the “Specified Sale Transactions”); and

WHEREAS, the Borrower has requested, and subject to the terms and conditions set forth herein, the Administrative Agent and the Lenders party hereto (the "Consenting Lenders") have agreed, to (i) waive the Events of Default (the "Specified Events of Default") which are set forth on Schedule A hereto, (ii) consent to the Specified Sale Transactions, (iii) make the amendments to the Existing Credit Agreement set forth in Section 1 hereof, and (iv) make the amendments to the Existing Collateral Agreement set forth in Section 2 hereof;

NOW, THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is agreed as follows:

SECTION 1. Amendments to Existing Credit Agreement. Subject to and in accordance with the terms and conditions set forth herein, the parties hereto agree that the Existing Credit Agreement is amended as follows:

(a) the body of the Existing Credit Agreement is hereby amended (a) to delete red or green stricken text (indicated textually in the same manner as the following examples: ~~stricken text~~ and ~~stricken text~~) and (b) to add the blue or green double-underlined text (indicated textually in the same manner as the following examples: double-underlined text and double-underlined text), in each case as set forth in the Credit Agreement attached hereto as Annex A.

(b) Schedule 7.13 to the Existing Credit Agreement is hereby amended and restated in its entirety as of the Amendment Effective Date with Schedule 7.13 attached hereto as Annex B, and such schedule sets forth the information required therein as of the Amendment Effective Date.

SECTION 2. Amendments to Existing Collateral Agreement. Subject to and in accordance with the terms and conditions set forth herein, the parties hereto agree that the Existing Collateral Agreement is amended as follows:

(a) Schedules 3.6, 3.7, 3.10, and 3.11 to the Existing Collateral Agreement are hereby amended and restated in their entirety as of the Amendment Effective Date with Schedules 3.6, 3.7, 3.10, and 3.11, respectively, attached hereto as Annex C, and each such schedule sets forth the information required therein as of the Amendment Effective Date.

SECTION 3. Waiver. Pursuant to the request of the Borrower and Guarantors, subject to the terms and conditions set forth herein and in reliance upon the representations and warranties set forth herein, the Lenders hereby agree to waive each of the Specified Events of Default under the Loan Documents. The waiver set forth in the preceding sentence shall be limited precisely as written and shall not be deemed to constitute: (a) an amendment, consent or waiver of any other terms or conditions of the Credit Agreement; or (b) a consent to any future amendment, consent or waiver, whether of any subsequent breach of the same provisions or otherwise.

SECTION 4. Consent. Subject to the terms and conditions set forth herein and in reliance upon the representations and warranties set forth herein, the Lenders constituting the Required Lenders hereby acknowledge and consent to [**] and [**]; provided that (i) the Borrower shall have delivered to the Administrative Agent diligence and supporting information regarding the [**] and the [**] in accordance with Section 5(a)(vi) hereof, (ii) at the time of the consummation of each of the [**] and the [**], no Event of Default shall have occurred and be continuing or shall result by virtue thereof, and (iii) the gross proceeds from the [**] shall not be less than [**] and the gross proceeds from the [**] shall not be less than [**];

provided that the aggregate amount of transaction expenses in connection with the [**] and the [**] shall not exceed in the aggregate [**]

SECTION 5. Conditions of Effectiveness of Amendment. This Amendment, the amendments set forth in Sections 1 and 2 above, the waiver set forth in Section 3 above, and the consent set forth in Section 4 above shall become effective on the date (such date, the “Amendment Effective Date”) when the following conditions shall have been satisfied or waived:

(a) The Administrative Agent shall have received the following, each in form and substance reasonably satisfactory to the Administrative Agent:

(i) this Amendment, duly executed by a Responsible Officer of each of the Credit Parties, the Administrative Agent and Consenting Lenders constituting Super Majority Required Lenders;

(ii) a certificate from a Responsible Officer of the Borrower to the effect that: (A) the representations and warranties of each Credit Party set forth in the Credit Agreement and in each other Loan Document to which it is a party are true and correct in all material respects on and as of the Amendment Effective Date with the same effect as though made on and as of such date, except to the extent such representations and warranties expressly relate to an earlier date, in which case they shall be true and correct in all material respects as of such earlier date; provided that any representation and warranty that is qualified as to “materiality,” “Material Adverse Effect” or similar language shall be true and correct (after giving effect to any qualification therein) in all respects on such respective dates; and (B) after giving effect to this Amendment, no Default or Event of Default has occurred and is continuing;

(iii) a certificate of a Responsible Officer of each Credit Party certifying that (A) the articles or certificate of incorporation or formation (or equivalent), as applicable, of such Credit Party have not been amended since the date of the last delivered certificate, or if they have been amended, attached thereto are true, correct and complete copies of the same, certified as of a recent date by the appropriate Governmental Authority in its jurisdiction of incorporation, organization or formation (or equivalent), as applicable, (B) the bylaws or other governing document of such Credit Party have not been amended since the date of the last delivered certificate, or if they have been amended, attached thereto are true, correct and complete copies of the same, (C) attached thereto is a true, correct and complete copy of resolutions duly adopted by the board of directors (or other governing body) of such Credit Party authorizing and approving the transactions contemplated hereunder and the execution, delivery and performance of this Amendment and the Credit Agreement as amended by this Amendment and (D) attached thereto is a true, correct and complete copy of such certificates of good standing from the applicable secretary of state of the state of incorporation, organization or formation (or equivalent), as applicable, of such Credit Party;

(iv) prepayment from the Borrower of the outstanding Revolving Credit Loans such that the Revolving Credit Outstandings do not exceed \$240,000,000 on the Amendment Effective Date; and

(v) diligence and supporting information regarding the [**] and the [**] satisfactory to the Administrative Agent.

(b) The Administrative Agent shall have received payment from the Borrower of (i) the Effective Date Fee (as defined below) and (ii) reasonable fees, charges and disbursements of the Administrative Agent, McGuireWoods LLP, counsel for the Administrative Agent, Goodmans LLP,

Canadian counsel for the Administrative Agent, and of RPA Advisors, LLC, financial advisor engaged on behalf of the Administrative Agent.

SECTION 6. Sale Covenants. The Borrower hereby covenants and agrees:

(a) the Borrower shall, in good faith, continue the sale processes in connection with certain assets identified to the Administrative Agent, including, without limitation, the Specified Sale Transactions;

(b) promptly upon receipt, the Borrower shall provide copies of (i) substantially final versions of the [**] and related material documents and (ii) the [**] and other material definitive documentation executed, in each of the foregoing cases, in connection with the sale of certain assets identified to the Administrative Agent, including, without limitation, the Specified Sale Transactions; and

(c) the Borrower shall promptly notify the Administrative Agent upon receipt of a request for, and upon entry into, exclusivity with any potential purchaser.

SECTION 7. Forbearance Agreement. Subject to and in accordance with the terms and conditions set forth herein, the parties hereto agree that the Forbearance Agreement is amended as follows:

(a) Section 4 shall be amended and restated in its entirety to read “[Reserved].”

SECTION 8. Post-Closing Covenants.

(a) Foreign Subsidiary Covenant. Within thirty (30) days after the Amendment Effective Date (or such later date as the Administrative Agent may agree to in its reasonable discretion), notwithstanding anything to the contrary in the Loan Documents, the Credit Parties shall cause all Foreign Subsidiaries that are not Immaterial Subsidiaries to (i) become a Guarantor by delivering to the Administrative Agent a duly executed supplement to the Guaranty Agreement in the form attached thereto as Exhibit A or such other document as the Administrative Agent shall deem reasonably acceptable for such purpose, (ii) grant a security interest in all Collateral (subject to the exclusions and exceptions specified in the Collateral Agreement) owned by such entity by delivering to the Administrative Agent a duly executed supplement to the Collateral Agreement in the form attached thereto as Exhibit A or such other document as the Administrative Agent shall deem reasonably acceptable for such purpose, (iii) deliver to the Administrative Agent such updated Schedules to the Loan Documents as are reasonably requested by the Administrative Agent with respect to such entity, (iv) deliver to the Administrative Agent such other documents as may be reasonably requested by the Administrative Agent, all in form, content and scope reasonably satisfactory to the Administrative Agent, including without limitation, pursuant to Section 8.2(l) of the Credit Agreement, and (v) comply with the provisions of Section 8.15 of the Credit Agreement; provided, that upon request by the Borrower, the Administrative Agent may in its reasonable discretion waive the Credit Parties’ compliance with this Section 8(a) with respect to a Subsidiary to the extent the Borrower and the Administrative Agent (acting in its reasonable discretion) agree that such Subsidiary constitutes an Excluded Subsidiary pursuant to clause (d) of the definition thereof in the Credit Agreement;

(b) Additional Amended and Restated Existing Collateral Agreement Schedules. Within five (5) days after the Amendment Effective Date (or such later date as the Administrative Agent may agree to in its reasonable discretion), the Credit Parties shall deliver to the Administrative Agent updated Schedules 3.8 and 3.12 to the Existing Collateral Agreement and, upon receipt by the Administrative Agent, each such schedule shall be deemed amended and restated in its entirety as of the Amendment Effective Date and each such schedule shall set forth the information required therein as of the Amendment Effective Date.

(c) Supplemental Intellectual Property Security Agreements. Within ten (10) days after the Amendment Effective Date (or such later date as the Administrative Agent may agree to in its reasonable discretion), the Credit Parties shall deliver to the Administrative Agent appropriate Intellectual Property (as such term is defined in the Collateral Agreement) security agreements executed by each applicable Credit Party necessary to grant to the Administrative Agent a first-priority Lien on all Intellectual Property registered in the United States and owned by such Credit Party.

SECTION 9. Amendment Fees. The Borrower shall pay to the Administrative Agent, for the ratable benefit of each Consenting Lender (as of the date that such fee is payable), an amendment fee, which shall be fully-earned and non-refundable as of the Amendment Effective Date, payable as set forth below:

(a) an aggregate amount equal to 0.50% of the Total Credit Exposure, as of the Amendment Effective Date (after giving effect to the Amendment), which amount shall be paid on the Amendment Effective Date (the “Effective Date Fee”), plus

(b) on December 1, 2024, and on the first day of each month thereafter, an aggregate amount equal to 1.00% of the Total Credit Exposure as of each such date (the “Additional Seventh Amendment Fees”).

For the avoidance of doubt, the Effective Date Fee and the Additional Seventh Amendment Fees shall be payable in addition to the 2024 Amendment Fee Amount (as such term is defined in the Fourth Amendment); provided, that the reference to the occurrence of any Event of Default in the definition thereof shall refer to the occurrence of any Event of Default after the Amendment Effective Date.

SECTION 10. Representations and Warranties. To induce the Administrative Agent and the Lenders to enter into this Amendment, each Credit Party represents and warrants to the Administrative Agent and the Lenders on and as of the Amendment Effective Date that, in each case:

(a) After giving effect to this Amendment, the representations and warranties of each Credit Party set forth in the Credit Agreement and in each other Loan Document to which it is a party are true and correct in all material respects on and as of the Amendment Effective Date with the same effect as though made on and as of such date, except to the extent such representations and warranties expressly relate to an earlier date, in which case they shall be true and correct in all material respects as of such earlier date; provided that any representation and warranty that is qualified as to “materiality,” “Material Adverse Effect” or similar language shall be true and correct (after giving effect to any qualification therein) in all respects on such respective dates;

(b) After giving effect to this Amendment, no Default or Event of Default has occurred and is continuing;

(c) it has all requisite power and authority and has taken all necessary corporate and other action to authorize the execution, delivery and performance of this Amendment and each other document executed in connection herewith to which it is a party in accordance with their respective terms and the transactions contemplated hereby; and

(d) this Amendment and each other document executed in connection herewith has been duly executed and delivered by the duly authorized officers of each Credit Party, and each such document constitutes the legal, valid and binding obligation of each such Credit Party, enforceable in accordance with its terms, subject to applicable bankruptcy, insolvency, reorganization, moratorium or other laws affecting creditors’ rights generally and subject to general principals of equity.

SECTION 11. General Release.

(a) In consideration of, among other things, Administrative Agent's and the Lenders' execution and delivery of this Amendment, each of Borrower and the other Credit Parties, on behalf of itself and its Related Parties, successors and assigns (collectively, "Releasors"), hereby forever agrees and covenants not to sue or prosecute against any Releasee (as hereinafter defined) and hereby forever waives, releases and discharges, to the fullest extent permitted by law, each Releasee from any and all claims (including, without limitation, crossclaims, counterclaims, rights of set-off and recoupment), actions, causes of action, suits, debts, accounts, interests, liens, promises, warranties, damages and consequential damages, demands, agreements, bonds, bills, specialties, covenants, controversies, variances, trespasses, judgments, executions, costs, expenses or claims whatsoever, that such Releasor now has or hereafter may have, of whatsoever nature and kind, whether known or unknown, whether now existing or hereafter arising, whether arising at law or in equity (collectively, the "Claims"), against the Administrative Agent (and any sub-agent thereof), each Lender and each Issuing Lender and their respective Related Parties, and their respective successors and assigns (collectively, the "Releasees"), based in whole or in part on facts, whether or not now known, existing on or before the Amendment Effective Date, that relate to, arise out of or otherwise are in connection with: (i) any or all of the Loan Documents or transactions contemplated thereby or any actions or omissions in connection therewith, or (ii) any aspect of the dealings or relationships between or among Borrower and the other Credit Parties, on the one hand, and any or all of the Administrative Agent, the Lenders and the Issuing Lenders, on the other hand, relating to any or all of the documents, transactions, actions or omissions referenced in clause (i) hereof. In entering into this Amendment, Borrower and each other Credit Party consulted with, and has been represented by, legal counsel and expressly disclaims any reliance on any representations, acts or omissions by any of the Releasees and hereby agrees and acknowledges that the validity and effectiveness of the releases set forth above do not depend in any way on any such representations, acts and/or omissions or the accuracy, completeness or validity thereof.

(b) Each of Borrower and other Credit Parties, on behalf of itself and its Related Parties and its successors, assigns, hereby absolutely, unconditionally and irrevocably, covenants and agrees with and in favor of each Releasee that it will not sue (at law, in equity, in any regulatory proceeding or otherwise) any Releasee on the basis of any Claim released, remised and discharged by Borrower or any other Credit Party pursuant to Section 11(a) hereof. If Borrower, any other Credit Party or any of its successors, assigns or other legal representatives violates the foregoing covenant, Borrower and other Credit Parties, each for itself and its successors, assigns and legal representatives, agrees to pay, in addition to such other damages as any Releasee may sustain as a result of such violation, all attorneys' fees and costs incurred by any Releasee as a result of such violation.

(c) Each party's obligations under this Section shall survive the termination of the Loan Documents and payment of the obligations thereunder.

SECTION 12. Reference to and Effect on the Credit Agreement and the Loan Documents. Except as expressly provided herein, the Existing Credit Agreement and the other Loan Documents shall remain unmodified and in full force and effect. This Amendment shall not be deemed (a) to be a waiver of, or consent to, or a modification or amendment of, any other term or condition of the Existing Credit Agreement or any other Loan Document other than as expressly set forth herein, (b) to prejudice any right or rights which the Administrative Agent or the Lenders may now have or may have in the future under or in connection with the Existing Credit Agreement or the other Loan Documents or any of the instruments or agreements referred to therein, as the same may be amended, restated, supplemented or modified from time to time, or (c) to be a commitment or any other undertaking or expression of any willingness to engage in any further discussion with the Borrower, any of its Subsidiaries or any other Person with respect to any other waiver, amendment, modification or any other change to the Existing Credit Agreement or the Loan

Documents or any rights or remedies arising in favor of the Lenders or the Administrative Agent, or any of them, under or with respect to any such documents. References in the Credit Agreement to "this Agreement" (and indirect references such as "hereunder", "hereby", "herein", "hereof" or other words of like import) and in any Loan Document to the "Credit Agreement" shall be deemed to be references to the Existing Credit Agreement as modified hereby.

SECTION 13. Further Assurances. Each Credit Party agrees to, to the extent required by the Loan Documents, make, execute and deliver all such additional and further acts, things, deeds, instruments and documents as the Administrative Agent may reasonably require for the purposes of implementing or effectuating the provisions of this Amendment and the other Loan Documents.

SECTION 14. Acknowledgement and Reaffirmation. Each Credit Party (a) consents to this Amendment and agrees that the transactions contemplated by this Amendment shall not limit or diminish the obligations of such Person under, or release such Person from any obligations under, any of the Loan Documents to which it is a party (as amended pursuant to this Amendment), (b) confirms and reaffirms its obligations under each of the Loan Documents to which it is a party (as amended pursuant to this Amendment) and (c) agrees that each of the Loan Documents to which it is a party (as amended pursuant to this Amendment) remains in full force and effect and is hereby ratified and confirmed.

SECTION 15. Costs and Expenses. The Borrower hereby reconfirms its obligations pursuant to Section 12.3(a) of the Credit Agreement to pay and reimburse the Administrative Agent in accordance with the terms thereof.

SECTION 16. Governing Law. THIS AMENDMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

SECTION 17. Counterparts. This Amendment may be executed in any number of counterparts and by the different parties hereto on separate counterparts, each of which counterparts when executed and delivered shall be an original, but all of which shall together constitute one and the same instrument. Delivery by facsimile or electronic transmission of an executed counterpart of a signature page to this Amendment shall be effective as delivery of an original executed counterpart of this Amendment.

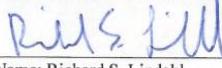
SECTION 18. Entire Agreement. This Amendment is the entire agreement, and supersedes any prior agreements and contemporaneous oral agreements, of the parties concerning its subject matter. This Amendment is a Loan Document and is subject to the terms and conditions of the Credit Agreement.

SECTION 19. Successors and Assigns. This Amendment shall be binding on and inure to the benefit of the parties hereto and their successors and permitted assigns.

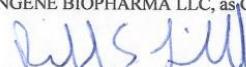
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IN WITNESS WHEREOF, the parties hereto have caused their duly authorized officers to execute and deliver this Amendment as of the date first above written.

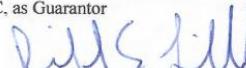
EMERGENT BIOSOLUTIONS INC., as Borrower

By: 
Name: Richard S. Lindahl
Title: Executive Vice President, Chief Financial Officer
and Treasurer

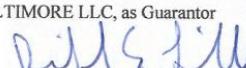
CANGENE BIOPHARMA LLC, as Guarantor

By: 
Name: Richard S. Lindahl
Title: Treasurer

EMERGENT BIODEFENSE OPERATIONS LANSING
LLC, as Guarantor

By: 
Name: Richard S. Lindahl
Title: Treasurer

EMERGENT MANUFACTURING OPERATIONS
BALTIMORE LLC, as Guarantor

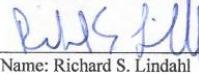
By: 
Name: Richard S. Lindahl
Title: Treasurer

EMERGENT PRODUCT DEVELOPMENT
GAIITHERSBURG INC., as Guarantor

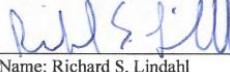
By: 
Name: Richard S. Lindahl
Title: Treasurer

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

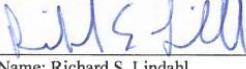
EMERGENT INTERNATIONAL INC., as Guarantor

By: 
Name: Richard S. Lindahl
Title: Treasurer

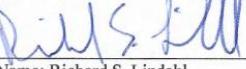
EMERGENT TRAVEL HEALTH INC. (FORMERLY
KNOWN AS PAXVAX, INC.), as Guarantor

By: 
Name: Richard S. Lindahl
Title: Chief Financial Officer and Treasurer

EMERGENT DEVICES INC. (FORMERLY KNOWN AS
ADAPT PHARMA INC.), as Guarantor

By: 
Name: Richard S. Lindahl
Title: Treasurer

EMERGENT BIOSOLUTIONS CANADA INC., as
Guarantor

By: 
Name: Richard S. Lindahl
Title: Treasurer

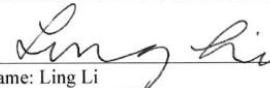
WELLS FARGO BANK, NATIONAL ASSOCIATION, as
Administrative Agent, Swingline Lender, Issuing Lender and
Lender

By: 
Name: Reginald T. Dawson
Title: Managing Director

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

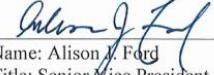
JPMORGAN CHASE BANK, N.A., as Lender

By: 
Name: Ling Li
Title: Executive Director

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

PNC BANK, N.A., as Lender

By: 
Name: Alison J. Ford
Title: Senior Vice President

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

Royal Bank of Canada, as a Lender

By: Juliet K. M. Eck
Name: Juliet K. M. Eck
Title: Authorized Signatory

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

BMO Bank National Association, as a Lender

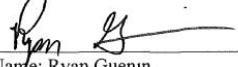
By: 

Name: Drew Feller

Title: Vice President

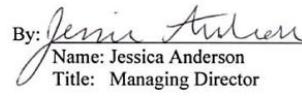
Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

CAPITAL ONE, N.A., as Lender

By: 
Name: Ryan Guenin
Title: Duly Authorized Signatory

Emergent BioSolutions Inc
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

CITIZENS BANK, N.A., as Lender

By: 
Name: Jessica Anderson
Title: Managing Director

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Annex C

187986513_6

THE HUNTINGTON NATIONAL BANK, as Lender

By: 

Name: Danielle MacDonald
Title: Vice President

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Internal Use

TD BANK, N.A., as a Lender

By: Katherine Brault
Name: Katherine Brault
Title: SVP

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

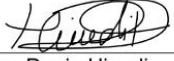
REGIONS BANK, as Lender

By: *Daniel Johnson*
Name: Daniel Johnson
Title: Vice President

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

Internal Use

DNB Capital LLC, as a Lender

By: 
Name: Dania Hinedi
Title: Senior Vice President

By: 
Name: Bret Douglas
Title: Senior Vice President

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

FIFTH THIRD BANK, NATIONAL ASSOCIATION., as a
Lender

By: S. Bradley McDougall
Name: S. Bradley McDougall
Title: Vice President

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

U.S. Bank National Association, as a Lender

By: Karen Boyer
Name: Karen Boyer
Title: Senior Vice President

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

Menard, Inc., as a Lender
By: Nuveen Asset Management, LLC

By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Nuveen Alternative Investment Funds SICAV-SIF -
Nuveen US Senior Loan Fund, as a Lender
By: Nuveen Asset Management LLC

By: 
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Nuveen Credit Strategies Income Fund, as a Lender
By: Nuveen Asset Management, LLC

By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Nuveen Floating Rate Income Fund, as a Lender
By: Nuveen Asset Management, LLC

By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Nuveen Floating Rate Income Fund, A Series of
Nuveen Investment Trust III, as a Lender
By: Nuveen Asset Management, LLC

By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Nuveen Multi-Asset Income Fund, as a Lender
By: Symphony Alternative Asset Management LLC -
Series 1 - Management Series, as collateral manager

By: 
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Nuveen Opportunistic Strategies LLC, acting through
Series 1 (Distressed Credit Strategy), as a Lender
By: Teachers Advisors, LLC, its investment manager

By: 
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Nuveen Senior Loan Fund, L.P., as a Lender
By: Nuveen Asset Management, LLC

By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

PENSIONDANMARK
PENSIONSFORSIKRINGSAKTIESELSKAB, as a
Lender
By: Nuveen Asset Management, LLC

Patrice Pippins-Boardraye
By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Principal Funds Inc, - Diversified Real Asset Fund,
as a Lender
BY: Symphony Asset Management LLC

By: 
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Principal Funds, Inc. - Global Diversified Income
Fund, as a Lender

By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

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Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Symphony Floating Rate Senior Loan Fund, as a
Lender
By: Nuveen Asset Management, LLC

By: 
Name: Patrice Pippins-Boardraye
Title: Lead

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

The Hans Foundation USA, as a Lender
By: Symphony Alternative Asset Management LLC

By: *Patrice Pippins-Boardraye*
Name: Patrice Pippins-Boardraye
Title: Lead

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Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

Confidential (C)

Future Fund Board of Guardians, as a Lender

By: Oak Hill Advisors, L.P.,
as Investment Manager

By: Gregory S. Rubin
Name: Gregory S. Rubin
Title: Authorized Signatory

Indiana Public Retirement System, as a Lender

By: Oak Hill Advisors, L.P.,
as Investment Manager

By: Gregory S. Rubin
Name: Gregory S. Rubin
Title: Authorized Signatory

OHA Centre Street Partnership, L.P., as a Lender

By: OHA Centre Street GenPar, LLC,
its general partner

By: Gregory S. Rubin
Name: Gregory S. Rubin
Title: Authorized Signatory

OHA Dynamic Credit ORCA Fund, L.P., as a Lender

By: OHA Dynamic Credit ORCA GenPar, LLP,
its general partner

By: OHA Global PE GenPar, LLC,
its managing partner

By: Gregory S. Rubin
Name: Gregory S. Rubin
Title: Authorized Signatory

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

OHA Enhanced Credit Strategies Master Fund, L.P., as
a Lender

By: OHA Enhanced Credit Strategies
GenPar, LLP, its general partner

By: OHA Global GenPar, LLC,
its managing partner

By: Gregory S. Rubin
Name: Gregory S. Rubin
Title: Authorized Signatory

OHA SA Customized Credit Fund, L.P., as a Lender

By: OHA SA Customized Credit GenPar, LLP,
its general partner

By: OHA Global PE GenPar, LLC,
its managing partner

By: Gregory S. Rubin
Name: Gregory S. Rubin
Title: Authorized Signatory

OHA Tactical Investment Master Fund, L.P., as a
Lender

By: OHA Tactical Investment GenPar, LLP,
its general partner

By: OHA Global PE GenPar, LLC,
its managing partner

By: Gregory S. Rubin
Name: Gregory S. Rubin
Title: Authorized Signatory

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

STRATEGIC VALUE CAPITAL SOLUTIONS II MF, L.P.,
as a Lender

By: SVP Capital Solutions II LLC,
Its investment manager

By: 
Name: Lew Schwartz
Title: Chief Financial Officer

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page
187986513

STRATEGIC VALUE EXCELSIOR FUND, L.P., as a
Lender

By: SVP Excelsior Management LLC,
Its manager

By: 
Name: Lew Schwartz
Title: Chief Financial Officer

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

STRATEGIC VALUE SPECIAL SITUATIONS MASTER
FUND V, L.P., as a Lender

By: SVP Special Situations V LLC,
Its investment manager

By: 
Name: Lew Schwartz
Title: Chief Financial Officer

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Signature Page

187986513

SCHEDULE A

SPECIFIED EVENTS OF DEFAULT

1. Event of Default under Section 10.1(c) of the Credit Agreement as a result of the Borrower's delivery of annual financial statements pursuant with Section 8.1(a) of the Credit Agreement for the fiscal year ending December 31, 2023 with a "going concern" or like qualification or exception.
2. Event of Default under Section 10.1(b) of the Credit Agreement as a result of the Borrower's failure to comply with the Consolidated Debt Service Coverage Ratio for the fiscal quarter ending March 31, 2024 set forth in Section 9.11(a) of the Credit Agreement.
3. Event of Default under Section 10.1(b) of the Credit Agreement as a result of the Borrower's failure to comply with the Consolidated Leverage Ratio for the fiscal quarter ending March 31, 2024 set forth in Section 9.11(b) of the Credit Agreement.
4. Events of Default under Section 10.1(b) of the Credit Agreement as a result of the Borrower's failure to comply with the minimum Consolidated EBITDA for the periods ending November 30, 2023, December 31, 2023, January 31, 2024 and February 29, 2024 set forth in Section 9.11(c) of the Credit Agreement.
5. Event of Default under Section 10.1(b) of the Credit Agreement as a result of the Borrower's failure to comply with the maximum Capital Expenditures for the period ending February 29, 2024 set forth in Section 9.11(d) of the Credit Agreement.
6. Events of Default under Section 10.1(b) of the Credit Agreement as a result of the Borrowers' failure to comply with Section 8.3(a) of the Credit Agreement as it relates to any of the foregoing Specified Events of Default.
7. Events of Default under Section 10.1(d) of the Credit Agreement as a result of any Specified Event of Default.

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Schedule A

187986513

ANNEX A
To Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement

[see attached]

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Annex A

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**ANNEX A TO CONSENT, WAIVER AND SEVENTH AMENDMENT TO
AMENDED AND RESTATED CREDIT AGREEMENT**

Published CUSIP Number: 29100YAF0
Revolving Credit CUSIP Number: 29100YAG8
Term Loan CUSIP Number: 29100YAH6

AMENDED AND RESTATED CREDIT AGREEMENT

dated as of October 15, 2018,

(as amended by (i) First Amendment to Amended and Restated Credit Agreement dated as of June 27, 2019 and (ii) Second Amendment to Amended and Restated Credit Agreement dated as of August 7, 2020, (iii) Consent, Limited Waiver and Third Amendment to Amended and Restated Credit Agreement dated as of February 14, 2023, (iv) Fourth Amendment to Amended and Restated Credit Agreement dated as of May 15, 2023, (v) Fifth Amendment to Amended and Restated Credit Agreement dated as of July 14, 2023, ~~and~~(vi) Forbearance Agreement and Sixth Amendment to Amended and Restated Credit Agreement dated as of February 29, 2024), ~~and~~(vii) Consent, Waiver and Seventh Amendment to
Amended and Restated Credit Agreement dated as of April 29, 2024)

by and among

EMERGENT BIOSOLUTIONS INC.,
as Borrower,

the Lenders referred to herein,
as Lenders,

and

WELLS FARGO BANK, NATIONAL ASSOCIATION,
as Administrative Agent,
Swingline Lender and an Issuing Lender

WELLS FARGO SECURITIES, LLC,
JPMORGAN CHASE BANK, N.A.,
PNC CAPITAL MARKETS LLC
and
RBC CAPITAL MARKETS*,

as Joint Lead Arranger and Joint Bookrunner
JPMORGAN CHASE BANK, N.A., PNC BANK, NATIONAL ASSOCIATION and
ROYAL BANK OF CANADA,

as Syndication Agents

REGIONS BANK, TRUIST BANK AS SUCCESSOR BY MERGER TO SUNTRUST BANK,
BANK OF MONTREAL, CAPITAL ONE, NATIONAL ASSOCIATION, CITIZENS BANK,
NATIONAL ASSOCIATION, MUFG BANK, LTD. and THE HUNTINGTON NATIONAL BANK,
as Documentation Agents

* RBC Capital Markets is a brand name for the capital markets businesses of Royal Bank of Canada and its affiliates.

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TABLE OF CONTENTS

	Page
ARTICLE I DEFINITIONS	<u>12</u>
SECTION 1.1 Definitions	<u>12</u>
SECTION 1.2 Other Definitions and Provisions	<u>4546</u>
SECTION 1.3 Accounting Terms	<u>4546</u>
SECTION 1.4 UCC Terms	<u>4647</u>
SECTION 1.5 Rounding	<u>4647</u>
SECTION 1.6 References to Agreement and Laws	<u>4647</u>
SECTION 1.7 Times of Day	<u>4647</u>
SECTION 1.8 Letter of Credit Amounts	<u>4647</u>
SECTION 1.9 Guarantees/Earn Outs	<u>4647</u>
SECTION 1.10 Covenant Compliance Generally	<u>4647</u>
SECTION 1.11 Exchange Rates; Currency Equivalents; Daily Simple SONIA Loans	<u>4748</u>
SECTION 1.12 Change of Currency	<u>4748</u>
SECTION 1.13 Additional Alternative Currencies	<u>4849</u>
SECTION 1.14 Limited Condition Acquisitions	<u>4950</u>
SECTION 1.15 Rates	<u>5051</u>
SECTION 1.16 Divisions	<u>5051</u>
ARTICLE II REVOLVING CREDIT FACILITY	<u>5152</u>
SECTION 2.1 Revolving Credit Loans	<u>5152</u>
SECTION 2.2 Swingline Loans	<u>5152</u>
SECTION 2.3 Procedure for Advances of Revolving Credit Loans and Swingline Loans	<u>5354</u>
SECTION 2.4 Repayment and Prepayment of Revolving Credit and Swingline Loans	<u>5455</u>
SECTION 2.5 Permanent Reduction of the Revolving Credit Commitment	<u>5557</u>
SECTION 2.6 Termination of Revolving Credit Facility	<u>5658</u>
ARTICLE III LETTER OF CREDIT FACILITY	<u>5658</u>
SECTION 3.1 L/C Facility	<u>5658</u>
SECTION 3.2 Procedure for Issuance and Disbursement of Letters of Credit	<u>5759</u>
SECTION 3.3 Commissions and Other Charges	<u>5860</u>
SECTION 3.4 L/C Participations	<u>5960</u>
SECTION 3.5 Reimbursement Obligation <i>of the Borrower</i>	<u>60 61</u>

-i-

TABLE OF CONTENTS

(continued)

	Page
SECTION 3.6	<u>61</u> <u>62</u>
SECTION 3.7	<u>63</u> <u>64</u>
SECTION 3.8	<u>63</u> <u>64</u>
SECTION 3.9	<u>63</u> <u>64</u>
SECTION 3.10	<u>63</u> <u>65</u>
ARTICLE IV TERM LOAN FACILITY	<u>64</u> <u>65</u>
SECTION 4.1	<u>64</u> <u>65</u>
SECTION 4.2	<u>64</u> <u>65</u>
SECTION 4.3	<u>64</u> <u>65</u>
SECTION 4.4	<u>65</u> <u>66</u>
ARTICLE V GENERAL LOAN PROVISIONS	<u>67</u> <u>68</u>
SECTION 5.1	<u>67</u> <u>68</u>
SECTION 5.2	<u>69</u> <u>70</u>
SECTION 5.3	<u>70</u> <u>71</u>
SECTION 5.4	<u>70</u> <u>71</u>
SECTION 5.5	<u>71</u> <u>72</u>
SECTION 5.6	<u>72</u> <u>73</u>
SECTION 5.7	<u>72</u> <u>73</u>
SECTION 5.8	<u>73</u> <u>74</u>
SECTION 5.9	<u>77</u> <u>78</u>
SECTION 5.10	<u>78</u> <u>79</u>
SECTION 5.11	<u>79</u> <u>81</u>
SECTION 5.12	<u>83</u> <u>84</u>
SECTION 5.13	<u>84</u> <u>85</u>
SECTION 5.14	<u>84</u> <u>85</u>
SECTION 5.15	<u>84</u> <u>86</u>
ARTICLE VI CONDITIONS OF CLOSING AND BORROWING	<u>87</u> <u>88</u>
SECTION 6.1	<u>87</u> <u>88</u>
SECTION 6.2	<u>89</u> <u>90</u>
ARTICLE VII REPRESENTATIONS AND WARRANTIES OF THE CREDIT PARTIES	<u>90</u> <u>91</u>
SECTION 7.1	<u>90</u> <u>91</u>
SECTION 7.2	<u>90</u> <u>92</u>

TABLE OF CONTENTS

(continued)

	Page
SECTION 7.3	<u>Governmental Authorization; Other Consents</u> <u>99</u> <u><u>92</u></u>
SECTION 7.4	<u>Binding Effect</u> <u>91</u> <u><u>92</u></u>
SECTION 7.5	<u>Financial Statements; No Material Adverse Effect</u> <u>91</u> <u><u>92</u></u>
SECTION 7.6	<u>Litigation</u> <u>92</u> <u><u>93</u></u>
SECTION 7.7	<u>No Default</u> <u>92</u> <u><u>93</u></u>
SECTION 7.8	<u>Ownership of Property; Liens; Investments</u> <u>92</u> <u><u>93</u></u>
SECTION 7.9	<u>Environmental Compliance</u> <u>93</u> <u><u>94</u></u>
SECTION 7.10	<u>Insurance</u> <u>93</u> <u><u>95</u></u>
SECTION 7.11	<u>Taxes</u> <u>93</u> <u><u>95</u></u>
SECTION 7.12	<u>ERISA Compliance</u> <u>94</u> <u><u>95</u></u>
SECTION 7.13	<u>Subsidiaries; Equity Interests; Credit Parties</u> <u>95</u> <u><u>96</u></u>
SECTION 7.14	<u>Margin Regulations; Investment Company Act</u> <u>95</u> <u><u>96</u></u>
SECTION 7.15	<u>Disclosure</u> <u>95</u> <u><u>97</u></u>
SECTION 7.16	<u>Compliance with Laws</u> <u>96</u> <u><u>97</u></u>
SECTION 7.17	<u>Intellectual Property; Licenses, Etc.</u> <u>97</u> <u><u>99</u></u>
SECTION 7.18	<u>Anti-Corruption Laws; Anti-Money Laundering Laws and Sanctions</u> <u>97</u> <u><u>99</u></u>
SECTION 7.19	<u>Solvency</u> <u>98</u> <u><u>99</u></u>
SECTION 7.20	<u>Casualty, Etc.</u> <u>98</u> <u><u>99</u></u>
SECTION 7.21	<u>Collateral Documents</u> <u>98</u> <u><u>100</u></u>
SECTION 7.22	<u>Material Contracts</u> <u>98</u> <u><u>100</u></u>
ARTICLE VIII AFFIRMATIVE COVENANTS	<u>100</u> <u><u>101</u></u>
SECTION 8.1	<u>Financial Statements and Budgets</u> <u>100</u> <u><u>101</u></u>
SECTION 8.2	<u>Certificates; Other Reports</u> <u>101</u> <u><u>102</u></u>
SECTION 8.3	<u>Notice of Litigation and Other Matters</u> <u>103</u> <u><u>105</u></u>
SECTION 8.4	<u>Payment of Taxes</u> <u>104</u> <u><u>106</u></u>
SECTION 8.5	<u>Preservation of Existence, Etc.</u> <u>104</u> <u><u>106</u></u>
SECTION 8.6	<u>Maintenance of Properties</u> <u>104</u> <u><u>106</u></u>
SECTION 8.7	<u>Maintenance of Insurance</u> <u>104</u> <u><u>106</u></u>
SECTION 8.8	<u>Compliance with Laws</u> <u>105</u> <u><u>107</u></u>
SECTION 8.9	<u>Books and Records</u> <u>105</u> <u><u>107</u></u>
SECTION 8.10	<u>Inspection Rights</u> <u>105</u> <u><u>107</u></u>
SECTION 8.11	<u>Use of Proceeds</u> <u>105</u> <u><u>107</u></u>

TABLE OF CONTENTS

(continued)

		Page
SECTION 8.12	Covenant to Guarantee Secured Obligations and Give Security.....	<u>106</u> <u>108</u>
SECTION 8.13	Compliance With Environmental Laws.....	<u>107</u> <u>109</u>
SECTION 8.14	Compliance with Anti-Corruption Laws; Beneficial Ownership Regulation, Anti-Money Laundering Laws and Sanctions.....	<u>107</u> <u>109</u>
SECTION 8.15	Further Assurances.....	<u>107</u> <u>109</u>
SECTION 8.16	Compliance with Terms of Material Contracts.....	<u>107</u> <u>109</u>
SECTION 8.17	Cash Management.....	<u>107</u> <u>109</u>
SECTION 8.18	Post-Closing Matters.....	<u>108</u> <u>110</u>
SECTION 8.19	Lender Calls.....	<u>108</u> <u>110</u>
SECTION 8.20	Junior Capital Raise.....	<u>108</u> <u>110</u>
<u>SECTION 8.21</u>	<u>Collateral Matters</u>	<u>110</u>
<u>SECTION 8.22</u>	<u>Flood Insurance Matters</u>	<u>111</u>
ARTICLE IX NEGATIVE COVENANTS		<u>108</u> <u>111</u>
SECTION 9.1	Liens.....	<u>109</u> <u>111</u>
SECTION 9.2	Investments.....	<u>111</u> <u>114</u>
SECTION 9.3	Indebtedness.....	<u>113</u> <u>115</u>
SECTION 9.4	Fundamental Changes.....	<u>117</u> <u>119</u>
SECTION 9.5	Dispositions.....	<u>118</u> <u>120</u>
SECTION 9.6	Restricted Payments.....	<u>119</u> <u>121</u>
SECTION 9.7	Change in Nature of Business.....	<u>120</u> <u>122</u>
SECTION 9.8	Transactions with Affiliates.....	<u>120</u> <u>122</u>
SECTION 9.9	Burdensome Agreements.....	<u>121</u> <u>122</u>
SECTION 9.10	Use of Proceeds.....	<u>121</u> <u>123</u>
SECTION 9.11	Financial Covenants.....	<u>121</u> <u>123</u>
SECTION 9.12	Amendments to <u>Organizational</u> <u>Organization</u> Documents.....	<u>122</u> <u>124</u>
SECTION 9.13	Accounting Changes.....	<u>122</u> <u>124</u>
SECTION 9.14	Payments, Etc. of <u>Indebtedness</u>	<u>122</u> <u>124</u>
SECTION 9.15	Amendments, Etc. of <u>Indebtedness</u>	<u>123</u> <u>125</u>
SECTION 9.16	Use of Proceeds.....	<u>123</u> <u>125</u>
ARTICLE X DEFAULT AND REMEDIES		<u>123</u> <u>125</u>
SECTION 10.1	Events of Default.....	<u>123</u> <u>125</u>
SECTION 10.2	Remedies.....	<u>126</u> <u>128</u>

TABLE OF CONTENTS

(continued)

	Page
SECTION 10.3	127 128
SECTION 10.4	127 129
SECTION 10.5	128 130
SECTION 10.6	129 130
ARTICLE XI THE ADMINISTRATIVE AGENT	129 131
SECTION 11.1	129 131
SECTION 11.2	130 131
SECTION 11.3	130 132
SECTION 11.4	131 133
SECTION 11.5	132 133
SECTION 11.6	132 134
SECTION 11.7	133 135
SECTION 11.8	134 135
SECTION 11.9	134 136
SECTION 11.10	135 137
SECTION 11.11	135 137
ARTICLE XII MISCELLANEOUS	137 139
SECTION 12.1	137 139
SECTION 12.2	140 141
SECTION 12.3	142 144
SECTION 12.4	144 146
SECTION 12.5	145 146
SECTION 12.6	145 147
SECTION 12.7	146 147
SECTION 12.8	146 148
SECTION 12.9	146 148
SECTION 12.10	150 151
SECTION 12.11	150 152
SECTION 12.12	151 152
SECTION 12.13	151 152
SECTION 12.14	151 153

-v-

168204187-7188290905_7

TABLE OF CONTENTS
(continued)

	Page
SECTION 12.15	154 153
SECTION 12.16	154 153
SECTION 12.17	152 154
SECTION 12.18	152 154
SECTION 12.19	152 154
SECTION 12.20	153 154
SECTION 12.21	153 155
SECTION 12.22	154 155
SECTION 12.23	154 156
SECTION 12.24	154 156
SECTION 12.25	155 157
SECTION 12.26	156 158

EXHIBITS

Exhibit A-1	- Form of Revolving Credit Note
Exhibit A-2	- Form of Swingline Note
Exhibit A-3	- Form of Term Loan Note
Exhibit B	- Form of Notice of Borrowing
Exhibit C	- Form of Notice of Account Designation
Exhibit D	- Form of Notice of Prepayment
Exhibit E	- Form of Notice of Conversion/Continuation
Exhibit F	- Form of Compliance Certificate
Exhibit G	- Form of Assignment and Assumption
Exhibit H-1	- Form of U.S. Tax Compliance Certificate (Non-Partnership Foreign Lenders)
Exhibit H-2	- Form of U.S. Tax Compliance Certificate (Non-Partnership Foreign Participants)
Exhibit H-3	- Form of U.S. Tax Compliance Certificate (Foreign Participant Partnerships)
Exhibit H-4	- Form of U.S. Tax Compliance Certificate (Foreign Lender Participant Partnerships)
Exhibit I	- Form of Immaterial Subsidiary Guarantor Termination Notice
Exhibit J	- Form of Solvency Certificate

SCHEDULES

Schedule 1.1(a)	- Existing Letters of Credit
Schedule 1.1(b)	- Existing Hedge Agreements
Schedule 1.1(c)	- Commitments and Commitment Percentages
Schedule 1.1(d)	- Specified Candidate Programs
Schedule 7.8(b)	- Existing Liens
Schedule 7.8(c)	- Owned Real Property
Schedule 7.8(d)	- Existing Investments
Schedule 7.9	- Environmental Matters
Schedule 7.13	- Subsidiaries and Other Equity Investments; Credit Parties
Schedule 8.18	- Post-Closing Matters
Schedule 9.3	- Existing Indebtedness
Schedule 9.9	- Burdensome Agreements

AMENDED AND RESTATED CREDIT AGREEMENT, dated as of October 15, 2018, by and among EMERGENT BIOSOLUTIONS INC., a Delaware corporation (the “Borrower”), the lenders who are party to this Agreement and the lenders who may become a party to this Agreement pursuant to the terms hereof, as Lenders, and WELLS FARGO BANK, NATIONAL ASSOCIATION, a national banking association, as Administrative Agent for the Lenders.

STATEMENT OF PURPOSE

WHEREAS, the Borrower, certain financial institutions party thereto and Wells Fargo Bank, National Association, as administrative agent, are parties to that certain Credit Agreement dated as of September 29, 2017 (as amended, modified, restated or supplemented immediately prior to the date hereof, the “Existing Credit Agreement”). The Borrower has requested, and the Administrative Agent and Lenders have agreed, to amend and restate the Existing Credit Agreement pursuant to the terms hereof.

WHEREAS, the Borrower has requested, and subject to the terms and conditions set forth in this Agreement, the Administrative Agent and the Lenders have agreed to extend, a term loan facility and a revolving credit facility to the Borrower.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the parties hereto, such parties hereby agree as follows:

ARTICLE I

DEFINITIONS

SECTION 1.1 Definitions. The following terms when used in this Agreement shall have the meanings assigned to them below:

“2028 Senior Notes” means the 3.875% Senior Notes due 2028, issued by the Borrower.

“Account Control Agreements” means each Deposit Account Control Agreement, Securities Account Control Agreement and each other account control agreement entered into pursuant to the terms of this Agreement or any other Loan Document, in each case, in form and substance reasonably satisfactory to Administrative Agent.

“Acquired EBITDA” means, with respect to any Person or business acquired pursuant to a Permitted Acquisition for any period, the amount for such period of Consolidated EBITDA of any such Person or business so acquired (determined using such definitions as if references to the Borrower and its Subsidiaries therein were to such Person or business), as calculated by the Borrower in good faith and which shall be factually supported by historical financial statements; provided, that, notwithstanding the foregoing to the contrary, in determining Acquired EBITDA for any Person or business that does not have historical financial accounting periods which coincide with that of the financial accounting periods of the Borrower and its Subsidiaries (a) references to Measurement Period in any applicable definitions shall be deemed to mean the same relevant period as the applicable period of determination for the Borrower and its Subsidiaries and (b) to the extent the commencement of any such Measurement Period shall occur during a fiscal quarter of such acquired Person or business (such that only a portion of such fiscal quarter shall be included in such Measurement Period), Acquired EBITDA for the portion of such fiscal quarter so included in such Measurement Period shall be deemed to be an amount equal to (x) Acquired EBITDA otherwise attributable to the entire fiscal quarter (determined in a manner consistent with the terms set forth above) multiplied by (y) a fraction, the numerator of which shall be the number

of months of such fiscal quarter included in the relevant Measurement Period and the denominator of which shall be actual months in such fiscal quarter.

“Acquired Interest Charges” means, with respect to any Person or business acquired pursuant to a Permitted Acquisition for any period, the amount for such period of Consolidated Interest Charges of any such Person or business so acquired (determined using such definitions as if references to the Borrower and its Subsidiaries therein were to such Person or business), as calculated by the Borrower in good faith and which shall be factually supported by historical financial statements; **provided**, that, notwithstanding the foregoing to the contrary, in determining Acquired Interest Charges for any Person or business that does not have historical financial accounting periods which coincide with that of the financial accounting periods of the Borrower and its Subsidiaries (a) references to Measurement Period in any applicable definitions shall be deemed to mean the same relevant period as the applicable period of determination for the Borrower and its Subsidiaries and (b) to the extent the commencement of any such Measurement Period shall occur during a fiscal quarter of such acquired Person or business (such that only a portion of such fiscal quarter shall be included in such Measurement Period), Acquired Interest Charges for the portion of such fiscal quarter so included in such Measurement Period shall be deemed to be an amount equal to (x) Acquired Interest Charges otherwise attributable to the entire fiscal quarter (determined in a manner consistent with the terms set forth above) multiplied by (y) a fraction, the numerator of which shall be the number of days of such fiscal quarter included in the relevant Measurement Period and the denominator of which shall be actual days in such fiscal quarter.

“Acquisition” means any transaction consummated on or after the date of this Agreement, by which any Credit Party or any of its Subsidiaries (x) acquires any going business or all or substantially all of the assets of any Person, or division thereof, whether through purchase of assets, merger or otherwise or (y) directly or indirectly acquires (in one transaction or as the most recent transaction in a series of transactions) at least a majority (in number of votes) of the securities of a corporation which have ordinary voting power for the election of members of the board of directors or the equivalent governing body (other than securities having such power only by reason of the happening of a contingency) or a majority (by percentage or voting power) of the outstanding ownership interests of a partnership or limited liability company.

“Adapt Canada” means Adapt Pharma Canada Ltd., a company incorporated under the laws of British Columbia.

“Adapt Target” means Adapt Pharma Limited, an Irish private company limited by shares.

“Adapt US” means Adapt Pharma Inc., a Delaware corporation.

“Adapt US/Canada Integration” means, on or after the Closing Date, the contemporaneous (a) assignment, transfer, dividend or distribution of all of the Adapt US/Canada Shares by the Adapt Target to the Irish Newco Subsidiary, (b) assignment, transfer, dividend or distribution of the Adapt US/Canada Shares by Irish Newco Subsidiary to Emergent International, (c) assignment, transfer, dividend or distribution of the Adapt US/Canada Shares by Emergent International to the Borrower and (d) related interim or series of related transactions, such that, after the consummation of each of the foregoing transactions, the Borrower shall own all of the Adapt US/Canada Shares.

“Adapt US/Canada Shares” means the issued and outstanding Equity Interests (or other ownership interests) of Adapt US and Adapt Canada from time to time.

“Additional Guarantor Trigger Event” has the meaning assigned thereto in [Section 8.12](#).

“Adjusted Daily Simple SONIA” means, for purposes of any calculation, the rate per annum equal to (a) Daily Simple SONIA for such calculation plus (b) the SONIA Adjustment; provided that if Adjusted Daily Simple SONIA as so determined shall ever be less than the Floor, then Adjusted Daily Simple SONIA shall be deemed to be the Floor.

“Adjusted Eurocurrency Rate” means, as to any Loan denominated in any applicable Currency not bearing interest based on an RFR (which, as of the date hereof, shall mean Euros and each of the Currencies identified in the definition of “Alternative Currency”, other than Canadian Dollars and Sterling) for any Interest Period, a rate per annum determined by the Administrative Agent pursuant to the following formula:

$$\text{Adjusted Eurocurrency Rate} = \frac{\text{Eurocurrency Rate for such Currency for such Interest Period}}{1.00 - \text{Eurocurrency Reserve Percentage}} \text{ “Adjusted Term CORR”}$$

A” means, for purposes of any calculation, the rate per annum equal to (a) Term CORRA for such calculation plus (b) the Term CORRA Adjustment; provided that if Adjusted Term CORRA as so determined shall ever be less than the Floor, then Adjusted Term CORRA shall be deemed to be the Floor.

“Adjusted Term SOFR” means, for purposes of any calculation, the rate per annum equal to (a) Term SOFR for such calculation plus (b) the Term SOFR Adjustment; provided that if Adjusted Term SOFR as so determined shall ever be less than the Floor, then Adjusted Term SOFR shall be deemed to be the Floor.

“Administrative Agent” means Wells Fargo, in its capacity as Administrative Agent hereunder, and any successor thereto appointed pursuant to Section 11.6.

“Administrative Agent Fee Letter” means the separate letter agreement of even date herewith between the Borrower and Wells Fargo.

“Administrative Agent’s Office” means, with respect to any Currency, the office of the Administrative Agent specified in or determined in accordance with the provisions of Section 12.1(c), with respect to such Currency.

“Administrative Questionnaire” means an administrative questionnaire in a form supplied by the Administrative Agent.

“Affected Financial Institution” means (a) any EEA Financial Institution or (b) any UK Financial Institution.

“Affiliate” means, with respect to a specified Person, another Person that directly, or indirectly through one or more intermediaries, Controls or is Controlled by or is under common Control with the Person specified.

“Agent Parties” has the meaning assigned thereto in Section 12.1(e).

“Agreement” means this Amended and Restated Credit Agreement.

“Alternative Currency” means (a) each of Euro, Sterling, and Canadian Dollars and (b) each other currency (other than Dollars) that is approved in accordance with Section 1.13, in each case to the

extent such currencies are (i) readily available and freely transferable and convertible into Dollars, (ii) dealt with in the London interbank deposit market and (iii) for which no central bank or other governmental authorization in the country of issue of such currency is required to give authorization for the use of such currency by any Revolving Credit Lender for making Loans unless such authorization has been obtained and remains in full force and effect.

“Alternative Currency Equivalent” means, subject to Section 1.11, at any time, with respect to any amount denominated in Dollars, the equivalent amount thereof in the applicable Alternative Currency or Alternative L/C Currency as determined by the Administrative Agent or the applicable Issuing Lender (with notice thereof to the Administrative Agent), as applicable, in its sole discretion by reference to the most recent Spot Rate (as determined in respect of the most recent Revaluation Date) for the purchase of such Alternative Currency or Alternative L/C Currency with Dollars.

“Alternative Currency Sublimit” means the lesser of (a) the Revolving Credit Commitments and (b) \$25,000,000.

“Alternative L/C Currency” means (a) each of Euro, Sterling, and Canadian Dollars and (b) each other currency (other than Dollars) that is approved by the applicable Issuing Lender in accordance with Section 1.13, in each case to the extent such currencies are (i) readily available and freely transferable and convertible into Dollars, (ii) dealt with in the London interbank deposit market and (iii) for which no central bank or other governmental authorization in the country of issue of such currency is required to give authorization for the use of such currency by any Issuing Lender for issuing Letters of Credit unless such authorization has been obtained and remains in full force and effect.

“Anti-Corruption Laws” means all laws, rules, and regulations of any jurisdiction applicable to a Credit Party or its Subsidiaries from time to time concerning or relating to bribery or corruption, including, without limitation, the United States Foreign Corrupt Practices Act of 1977 and the rules and regulations thereunder and the U.K. Bribery Act 2010 and the rules and regulations thereunder.

“Anti-Money Laundering Laws” means any and all laws, statutes, regulations or obligatory government orders, decrees, ordinances or rules applicable to a Credit Party or its Subsidiaries related to terrorism financing or money laundering including any applicable provision of the PATRIOT Act and The Currency and Foreign Transactions Reporting Act (also known as the “Bank Secrecy Act,” 31 U.S.C. §§ 5311-5330 and 12 U.S.C. §§ 1818(s), 1820(b) and 1951-1959).

“Applicable Law” means all applicable provisions of constitutions, laws, statutes, ordinances, rules, treaties, regulations, permits, licenses, approvals, interpretations and orders of Governmental Authorities and all orders and decrees of all courts and arbitrators.

“Applicable Margin” means from February 29, 2024,the Seventh Amendment Effective Date, through the Applicable Maturity Date, (i) 5.007.00% per annum with respect to Base Rate Loans, (ii) 6.508.50% per annum with respect to SOFR Loans, Daily Simple SONIA RFR Loans and Eurocurrency Rate Loans, and (iii) 0.40% with respect to Commitment Fees.

“Applicable Maturity Date” means (a) with respect to any Revolving Credit Loan or Swingline Loan, the Revolving Credit Maturity Date or (b) the Initial Term Loan, the Term Loan Maturity Date.

“Applicable Time” means, with respect to any Loan and Letters of Credit and payments in any Alternative Currency or Alternative L/C Currency, the local time in the place of settlement for such Alternative Currency or Alternative L/C Currency as may be determined by the Administrative Agent or the applicable Issuing Lender (with notice to the Administrative Agent), as the case may be, to be

necessary for timely settlement on the relevant date in accordance with normal banking procedures in the place of payment.

“Approved Fund” means any Fund that is administered or managed by (a) a Lender, (b) an Affiliate of a Lender or (c) an entity or an Affiliate of an entity that administers or manages a Lender.

“Arrangers” means Wells Fargo Securities, LLC, JPMorgan Chase Bank, N.A., PNC Capital Markets LLC and RBC Capital Markets²¹, each in their capacity as a joint lead arranger and joint bookrunner.

“Assignment and Assumption” means an assignment and assumption entered into by a Lender and an Eligible Assignee (with the consent of any party whose consent is required by Section 12.9), and accepted by the Administrative Agent, in substantially the form attached as ***Exhibit G*** or any other form approved by the Administrative Agent.

“Attributable Indebtedness” means, on any date, (a) in respect of any Capitalized Lease of any Person, the capitalized amount thereof that would appear on a balance sheet of such Person prepared as of such date in accordance with GAAP, and (b) in respect of any Synthetic Lease Obligation, the capitalized amount of the remaining lease payments under the relevant lease that would appear on a balance sheet of such Person prepared as of such date in accordance with GAAP if such lease were accounted for as a Capitalized Lease and (c) all Synthetic Debt of such Person.

“Audited Financial Statements” means the audited consolidated balance sheet of the Borrower and its Subsidiaries for the fiscal year ended December 31, 2017, and the related consolidated statements of income or operations, shareholders’ equity and cash flows for such fiscal year of the Borrower and its Subsidiaries, including the notes thereto.

“AV7909” means anthrax vaccine absorbed with CPG 7909 adjuvant.

“AV7909 Contract” means the provisions relating to the manufacturing development and procurement of AV7909 set forth in that certain BARDA development and procurement contract (Contract No. HHSO100201600030C), effective September 30, 2016, between Emergent Product Development Gaithersburg Inc. and the Biomedical Advanced Research & Development Administration, as the same may be amended, restated, supplemented, replaced, substituted for, renewed, or otherwise modified from time to time.

“AV7909 Receivables Account” means any account in which payments from the Federal Government (or any subdivision or agency thereof) on account of the AV7909 Contract are made or deposited.

“Available Tenor” means, as of any date of determination and with respect to any then-current Benchmark for any Currency, as applicable, **(a)** if such Benchmark is a term rate, any tenor for such Benchmark (or component thereof) that is or may be used for determining the length of an interest period pursuant to this Agreement **or (b) otherwise, any payment period for interest calculated with reference to such Benchmark (or component thereof) that is or may be used for determining any frequency of making payments of interest calculated with reference to such Benchmark, in each case**, as of such date and not including, for the avoidance of doubt, any tenor for such Benchmark that is then-removed from the definition of “Interest Period” pursuant to Section 5.8(c)(iv).

²¹ RBC Capital Markets is a brand name for the capital markets businesses of Royal Bank of Canada and its affiliates.

"Bail-In Action" means the exercise of any Write-Down and Conversion Powers by the applicable Resolution Authority in respect of any liability of an Affected Financial Institution.

"Bail-In Legislation" means (a) with respect to any EEA Member Country implementing Article 55 of Directive 2014/59/EU of the European Parliament and of the Council of the European Union, the implementing law, regulation, rule or requirement for such EEA Member Country from time to time which is described in the EU Bail-In Legislation Schedule and (b) with respect to the United Kingdom, Part I of the United Kingdom Banking Act 2009 (as amended from time to time) and any other law, regulation or rule applicable in the United Kingdom relating to the resolution of unsound or failing banks, investment firms or other financial institutions or their affiliates (other than through liquidation, administration or other insolvency proceedings).

"Bankruptcy Code" means 11 U.S.C. §§ 101 *et seq.*

"BARDA Contract" means that certain ASPR-BARDA (Contract No. HHSO100201700007C), effective March 16, 2017, between Emergent BioDefense Operations Lansing LLC and HHS / OS / ASPR / BARDA, as the same may be amended, restated, supplemented as otherwise modified from time to time.

"Base Rate" means, at any time, the highest of (a) the Prime Rate, (b) the Federal Funds Rate plus 0.50% and (c) Adjusted Term SOFR for a one-month tenor in effect on such day plus 1%; each change in the Base Rate shall take effect simultaneously with the corresponding change or changes in the Prime Rate, the Federal Funds Rate or Adjusted Term SOFR, as applicable (provided that clause (c) shall not be applicable during any period in which Adjusted Term SOFR is unavailable or unascertainable). Notwithstanding the foregoing, in no event shall the Base Rate be less than 1.00% per annum.

"Base Rate Loan" means any Loan bearing interest at a rate based upon the Base Rate as provided in Section 5.1(a). All Base Rate Loans shall be denominated in Dollars.

"Benchmark" means, initially, with respect to any (a) Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Dollars, the Term SOFR Reference Rate; provided that if a Benchmark Transition Event has occurred with respect to the Term SOFR Reference Rate or then-current Benchmark for Dollars, then "Benchmark" means, with respect to such Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 5.8(c)(i), (b) Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Sterling, Daily Simple SONIA; provided that if a Benchmark Transition Event has occurred with respect to Daily Simple SONIA or the then-current Benchmark for Sterling, then "Benchmark" means, with respect to such Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 5.8(c)(i), and (c) Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Euros or Canadian Dollars, EURIBOR or CDOR, respectively the Term CORRA Reference Rate; provided that if a Benchmark Transition Event has occurred with respect to the Term CORRA Reference Rate or then-current Benchmark for Canadian Dollars, then "Benchmark" means, with respect to such Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 5.8(c)(i), and (d) Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Euros, EURIBOR; provided that if a Benchmark Transition Event has occurred with respect to EURIBOR or CDOR, as applicable, or the then-current Benchmark for such Currency, then "Benchmark" means, with respect to such Obligations, interest, fees, commissions or other amounts, the applicable Benchmark Replacement to the

extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to Section 5.8(c)(i).

“Benchmark Replacement” means, with respect to any Benchmark Transition Event for any then-current Benchmark, the sum of: (a) the alternate benchmark rate that has been selected by the Administrative Agent and the Borrower as the replacement for such Benchmark giving due consideration to (i) any selection or recommendation of a replacement benchmark rate or the mechanism for determining such a rate by the Relevant Governmental Body or (ii) any evolving or then-prevailing market convention for determining a benchmark rate as a replacement for such Benchmark for syndicated credit facilities denominated in the applicable Currency at such time and (b) the related Benchmark Replacement Adjustment; provided that, if such Benchmark Replacement as so determined would be less than the Floor, such Benchmark Replacement will be deemed to be the Floor for the purposes of this Agreement and the other Loan Documents.

“Benchmark Replacement Adjustment” means, with respect to any replacement of any then-current Benchmark with an Unadjusted Benchmark Replacement ~~for any applicable Available Tenor~~, the spread adjustment, or method for calculating or determining such spread adjustment, (which may be a positive or negative value or zero) that has been selected by the Administrative Agent and the Borrower giving due consideration to (a) any selection or recommendation of a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement by the Relevant Governmental Body or (b) any evolving or then-prevailing market convention for determining a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement for syndicated credit facilities denominated in the applicable Currency.

“Benchmark Replacement Date” means the earliest to occur of the following events with respect to the then-current Benchmark for any Currency:

- (a) in the case of clause (a) or (b) of the definition of “Benchmark Transition Event,” the later of (i) the date of the public statement or publication of information referenced therein and (ii) the date on which the administrator of such Benchmark (or the published component used in the calculation thereof) permanently or indefinitely ceases to provide such Benchmark (or such component thereof) or, if such Benchmark is a term rate, all Available Tenors of such Benchmark (or such component thereof); or
- (b) in the case of clause (c) of the definition of “Benchmark Transition Event,” the first date on which such Benchmark (or the published component used in the calculation thereof) has been or, if such Benchmark is a term rate, all Available Tenors of such Benchmark (or such component thereof) have been determined and announced by the regulatory supervisor for the administrator of such Benchmark (or such component thereof) to be non-representative; provided that such non-representativeness will be determined by reference to the most recent statement or publication referenced in such clause (c) and even if such Benchmark (or such component thereof) or, if such Benchmark is a term rate, any Available Tenor of such Benchmark (or such component thereof) continues to be provided on such date.

For the avoidance of doubt, if such Benchmark is a term rate, the “Benchmark Replacement Date” will be deemed to have occurred in the case of clause (a) or (b) with respect to any Benchmark upon the occurrence of the applicable event or events set forth therein with respect to all then-current Available Tenors of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Transition Event” means, with respect to the then-current Benchmark for any Currency, the occurrence of one or more of the following events with respect to such Benchmark:

- (a) a public statement or publication of information by or on behalf of the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that such administrator has ceased or will cease to provide such Benchmark (or such component thereof) or, if such Benchmark is a term rate, all Available Tenors of such Benchmark (or such component thereof), permanently or indefinitely; provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide such Benchmark (or such component thereof) or, if such Benchmark is a term rate, any Available Tenor of such Benchmark (or such component thereof);
- (b) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof), the FRB, Board of Governors of the Federal Reserve System (or any successor), the Federal Reserve Bank of New York, the central bank for the Currency applicable to such Benchmark, an insolvency official with jurisdiction over the administrator for such Benchmark (or such component), a resolution authority with jurisdiction over the administrator for such Benchmark (or such component) or a court or an entity with similar insolvency or resolution authority over the administrator for such Benchmark (or such component), which states that the administrator of such Benchmark (or such component) has ceased or will cease to provide such Benchmark (or such component thereof) or, if such Benchmark is a term rate, all Available Tenors of such Benchmark (or such component thereof) permanently or indefinitely; provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide such Benchmark (or such component thereof) or, if such Benchmark is a term rate, any Available Tenor of such Benchmark (or such component thereof); or
- (c) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that such Benchmark (or such component thereof) or, if such Benchmark is a term rate, all Available Tenors of such Benchmark (or such component thereof) are not, or as of a specified future date will not be, representative.

For the avoidance of doubt, if such Benchmark is a term rate, a “Benchmark Transition Event” will be deemed to have occurred with respect to any Benchmark if a public statement or publication of information set forth above has occurred with respect to each then-current Available Tenor of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Transition Start Date” means, with respect to any Benchmark for any Currency, in the case of a Benchmark Transition Event, the earlier of (a) the applicable Benchmark Replacement Date and (b) if such Benchmark Transition Event is a public statement or publication of information of a prospective event, the 90th day prior to the expected date of such event as of such public statement or publication of information (or if the expected date of such prospective event is fewer than 90 days after such statement or publication, the date of such statement or publication).

“Benchmark Unavailability Period” means, with respect to any then-current Benchmark for any Currency, the period (if any) (x) beginning at the time that a Benchmark Replacement Date with respect to such Benchmark pursuant to clauses (a) or (b) of that definition has occurred if, at such time, no Benchmark Replacement has replaced such Benchmark for all purposes hereunder and under any Loan Document in accordance with Section 5.8(c)(i) and (y) ending at the time that a Benchmark Replacement has replaced such Benchmark for all purposes hereunder and under any Loan Document in accordance with Section 5.8(c)(i).

“Beneficial Ownership Certification” means a certification regarding beneficial ownership as required by the Beneficial Ownership Regulation.

“Beneficial Ownership Regulation” means 31 CFR § 1010.230.

“Benefit Plan” means any of (a) an “employee benefit plan” (as defined in ERISA) that is subject to Title I of ERISA, (b) a “plan” as defined in and subject to Section 4975 of the Code or (c) any Person whose assets include (for purposes of ERISA Section 3(42) or otherwise for purposes of Title I of ERISA or Section 4975 of the Code) the assets of any such “employee benefit plan” or “plan”.

“BioThrax” means BioThrax® (Anthrax Vaccine Absorbed), a vaccine indicated for the active immunization for the prevention of disease caused by Bacillus anthracis.

“BioThrax Contract” means that certain CDC BioThrax Procurement Contract (Contract No. 200- 2017- 92634), effective December 8, 2016, between Emergent BioDefense Operations Lansing LLC and the Centers for Disease Control and Prevention, as the same may be amended, restated, supplemented, replaced, substituted for, renewed, or otherwise modified from time to time.

“BioThrax Receivables Account” means that certain deposit account of the Borrower ending -1874 maintained with PNC Bank, National Association (including any successor account thereto or replacement account thereof) and any other account in which payments from the Federal Government (or any subdivision or agency thereof) on account of the BioThrax Contracts are made or deposited.

“Borrower” has the meaning assigned thereto in the introductory paragraph hereto.

“Borrower Materials” has the meaning assigned thereto in Section 8.2.

“Business Day” means any day that (a) is not a Saturday, Sunday or other day on which the Federal Reserve Bank of New York is closed and (b) is not a day on which commercial banks in Charlotte, North Carolina are closed.

“Calculation Date” has the meaning assigned thereto in the definition of Applicable Margin.

“Canadian Dollar” or “C\$” means the lawful currency of Canada.

“Capital Expenditures” means, with respect to any Person for any period, any expenditure in respect of the purchase or other acquisition of any fixed or capital asset (excluding normal replacements and maintenance which are properly charged to current operations), all as determined in accordance with GAAP.

“Capitalized Leases” means all leases that have been or should be, in accordance with GAAP, recorded as capitalized leases.

“Cash Collateralize” means, to deposit in a Controlled Account or to pledge and deposit with, or deliver to the Administrative Agent, or directly to the applicable Issuing Lender (with notice thereof to the Administrative Agent), for the benefit of one or more of the Issuing Lenders, the Swingline Lender or the Lenders, as collateral for L/C Obligations or obligations of the Lenders to fund participations in respect of L/C Obligations or Swingline Loans, cash or deposit account balances or, if the Administrative Agent and the applicable Issuing Lender and the Swingline Lender shall agree, in their sole discretion, other credit support, in each case pursuant to documentation in form and substance reasonably satisfactory to the Administrative Agent, such Issuing Lender and the Swingline Lender, as applicable.

“Cash Collateral” shall have a meaning correlative to the foregoing and shall include the proceeds of such cash collateral and other credit support.

“Cash Equivalents” means any of the following types of Investments, to the extent owned by the Borrower or any of its Subsidiaries free and clear of all Liens (other than (x) Liens created under the Collateral Documents and (y) to the extent incurred in the ordinary course of business and not securing any Indebtedness, customary Liens (including rights of setoff) of banking institutions arising as a matter of law with respect to deposits maintained with such Person):

(a) readily marketable obligations issued or directly and fully guaranteed or insured by the United States of America or any agency or instrumentality thereof having maturities of not more than 360 days from the date of acquisition thereof; provided that the full faith and credit of the United States of America is pledged in support thereof;

(b) time deposits with, or insured certificates of deposit or bankers' acceptances of, any commercial bank that (i) (A) is a Lender or (B) is organized under the laws of the United States of America, any state thereof or the District of Columbia or is the principal banking subsidiary of a bank holding company organized under the laws of the United States of America, any state thereof or the District of Columbia, and is a member of the Federal Reserve System, (ii) has combined capital and surplus of at least \$1,000,000,000, in each case with maturities of not more than 180 days from the date of acquisition thereof;

(c) commercial paper issued by any Person organized under the laws of any state of the United States of America and rated at least “Prime-1” (or the then equivalent grade) by Moody's or at least “A-1” (or the then equivalent grade) by S&P, in each case with maturities of not more than 180 days from the date of acquisition thereof; and

(d) Investments, classified in accordance with GAAP as current assets of the Borrower or any of its Subsidiaries, in money market investment programs registered under the Investment Company Act of 1940, which are administered by financial institutions that have the highest rating obtainable from either Moody's or S&P, and the portfolios of which are limited solely to Investments of the character, quality and maturity described in clauses (a), (b) and (c) of this definition.

“Cash Management Agreement” means any agreement to provide cash management services, including treasury, depository, overdraft, credit or debit card (including non-card electronic payables and purchasing cards), electronic funds transfer and other cash management arrangements.

“Cash Management Bank” means any Person that, (a) at the time it enters into a Cash Management Agreement with the Borrower or any of its Subsidiaries, is a Lender, an Affiliate of a Lender, the Administrative Agent or an Affiliate of the Administrative Agent, or (b) at the time it (or its Affiliate) becomes a Lender or the Administrative Agent (including on the Closing Date), is a party to a Cash Management Agreement with the Borrower or any of its Subsidiaries, in each case in its capacity as a party to such Cash Management Agreement.

“Casualty Event” means the receipt by any Credit Party or any of its Subsidiaries of any cash insurance proceeds or condemnation award payable by reason of theft, loss, physical destruction or damage, taking or similar event with respect to any of their respective Property.

“CDOR” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“CERCLA” means the Comprehensive Environmental Response, Compensation and Liability Act of 1980.

CERCLIS means the Comprehensive Environmental Response, Compensation and Liability Information System maintained by the U.S. Environmental Protection Agency.

CFC means (a) a Foreign Subsidiary that is a “controlled foreign corporation” under Section 957 of the Code, or (b) at the election of the Borrower, any Domestic Subsidiary substantially all the assets of which consist of Equity Interests in Foreign Subsidiaries that constitute CFCs. As of the Closing Date, the Borrower has elected that Emergent International Inc., a Delaware corporation, shall not constitute a CFC under clause (b) of the immediately forgoing sentence.

Change in Law means the occurrence, after the date of this Agreement (or with respect to any Lender, if later, the date on which such Lender becomes a Lender), of any of the following: (a) the adoption or taking effect of any law, rule, regulation or treaty, (b) any change in any law, rule, regulation or treaty or in the administration, interpretation, implementation or application thereof by any Governmental Authority or (c) the making or issuance of any request, rule, guideline or directive (whether or not having the force of law) by any Governmental Authority; provided that notwithstanding anything herein to the contrary, (i) the Dodd-Frank Wall Street Reform and Consumer Protection Act and all requests, rules, guidelines or directives thereunder or issued in connection therewith and (ii) all requests, rules, guidelines or directives promulgated by the Bank for International Settlements, the Basel Committee on Banking Supervision (or any successor or similar authority) or the United States or foreign regulatory authorities, in each case pursuant to Basel III, shall in each case be deemed to be a “Change in Law”, regardless of the date enacted, adopted, implemented or issued.

Change of Control means an event or series of events by which:

- (a) any “person” or “group” (as such terms are used in Sections 13(d) and 14(d) of the Exchange Act, but excluding any employee benefit plan of such person or its subsidiaries, and any person or entity acting in its capacity as trustee, agent or other fiduciary or administrator of any such plan) becomes the “beneficial owner” (as defined in Rules 13d-3 and 13d-5 under the Exchange Act, except that a person or group shall be deemed to have “beneficial ownership” of all securities that such person or group has the right to acquire, whether such right is exercisable immediately or only after the passage of time (such right, an “option right”)), directly or indirectly, of 35% or more of the equity securities of the Borrower entitled to vote for members of the board of directors or equivalent governing body of the Borrower on a fully-diluted basis (and taking into account all such securities that such “person” or “group” has the right to acquire pursuant to any option right); or
- (b) during any period of 12 consecutive months, a majority of the members of the board of directors or other equivalent governing body of the Borrower cease to be composed of individuals (i) who were members of that board or equivalent governing body on the first day of such period, (ii) whose election or nomination to that board or equivalent governing body was approved by individuals referred to in clause (i) above constituting at the time of such election or nomination at least a majority of that board or equivalent governing body or (iii) whose election or nomination to that board or other equivalent governing body was approved by individuals referred to in clauses (i) and (ii) above constituting at the time of such election or nomination at least a majority of that board or equivalent governing body.

Class means, when used in reference to any Loan, whether such Loan is a Revolving Credit Loan, Swingline Loan or Initial Term Loan and, when used in reference to any Commitment, whether such Commitment is a Revolving Credit Commitment or Term Loan Commitment.

Closing Date means the date of this Agreement.

“Code” means the Internal Revenue Code of 1986, and the rules and regulations promulgated thereunder.

“Collateral” means the collateral security for the Secured Obligations pledged or granted pursuant to the Collateral Documents.

“Collateral Agreement” means the Amended and Restated Collateral Agreement of even date herewith executed by the Credit Parties in favor of the Administrative Agent, for the ratable benefit of the Secured Parties, which shall be in form and substance reasonably acceptable to the Administrative Agent.

“Collateral Documents” means the collective reference to the Collateral Agreement and each other agreement or writing pursuant to which any Credit Party pledges or grants a security interest to the Administrative Agent or its agent in any Property or assets securing the Secured Obligations.

“Commitment Fee” has the meaning assigned thereto in **Section 5.3(a)**.

“Commitment Percentage” means, as to any Lender, such Lender’s Revolving Credit Commitment Percentage or Term Loan Percentage, as applicable.

“Commitments” means, collectively, as to all Lenders, the Revolving Credit Commitments and the Term Loan Commitments of such Lenders.

“Commodity Exchange Act” means the Commodity Exchange Act (7 U.S.C. § 1 et seq.).

“Compliance Certificate” means a certificate of the chief financial officer or the treasurer of the Borrower substantially in the form attached as **Exhibit F**.

“Conforming Changes” means, with respect to the use or administration of an initial Benchmark or the use, administration, adoption or implementation of any Benchmark Replacement, any technical, administrative or operational changes (including changes to the definition of “Base Rate”, the definition of “Business Day,” the definition of “Eurocurrency Banking Day,” the definition of “RFR Business Day,” the definition of “Interest Period” or any similar or analogous definition (or the addition of a concept of “interest period”), timing and frequency of determining rates and making payments of interest, timing of borrowing requests or prepayment, conversion or continuation notices, the applicability and length of lookback periods, the applicability of **Section 5.9** and other technical, administrative or operational matters) that the Administrative Agent decides may be appropriate to reflect the adoption and implementation of any such rate or to permit the use and administration thereof by the Administrative Agent in a manner substantially consistent with market practice (or, if the Administrative Agent decides that adoption of any portion of such market practice is not administratively feasible or if the Administrative Agent determines that no market practice for the administration of any such rate exists, in such other manner of administration as the Administrative Agent decides is reasonably necessary in connection with the administration of this Agreement and the other Loan Documents) in consultation with the Borrower.

“Connection Income Taxes” means Other Connection Taxes that are imposed on or measured by net income (however denominated) or that are franchise Taxes or branch profits Taxes.

“Consolidated” means, when used with reference to financial statements or financial statement items of any Person, such statements or items on a consolidated basis in accordance with applicable principles of consolidation under GAAP.

“Consolidated Debt Service Coverage Ratio” means, as of any date of determination, the ratio of (a) the result of (i) Consolidated EBITDA for the most recently ended Measurement Period minus (ii) aggregate amount of Maintenance CapEx during such Measurement Period to (b) the sum of (i) Consolidated Interest Charges payable in cash for such Measurement Period plus (ii) the aggregate principal amount of all regularly scheduled principal payments on Consolidated Funded Indebtedness for such Measurement Period.

“Consolidated EBITDA” means, for any Measurement Period, for the Borrower and its Subsidiaries on a Consolidated basis, an amount equal to:

- (a) Consolidated Net Income for such period plus
- (b) without duplication, the sum of following to the extent deducted in calculating such Consolidated Net Income (other than as set forth in clause (vi)(E)) in accordance with GAAP for such period:
 - (i) Consolidated Interest Charges for such period;
 - (ii) the provision for Federal, state, local and foreign income taxes payable by the Borrower and its Subsidiaries;
 - (iii) depreciation and amortization expense;
 - (iv) other non-cash expenses, excluding any non-cash expense that represents an accrual for a cash expense to be taken in a future period and any non-cash expense that relates to the write-down or write-off of accounts receivable or inventory;
 - (v) all transaction fees, charges and other amounts related to the Transactions and any amendment or other modification to the Loan Documents, in each case to the extent paid within six (6) months of the Closing Date or the effectiveness of such amendment or other modification;
 - (vi) (A) costs and expenses in connection with any Acquisitions (including, without limitation, any financing fees, merger and acquisition fees, legal fees and expenses, due diligence fees or any other fees and expenses in connection therewith), whether or not consummated, (B) other unusual and non-recurring cash expenses or charges, (C) to the extent incurred in connection with a Permitted Acquisition, one-time non-recurring severance charges incurred within twelve (12) months of such Permitted Acquisition, (D) cash restructuring charges with respect to Permitted Acquisitions or otherwise and (E) synergies, operating expense reductions and other net cost savings and integration costs projected by the Borrower in connection with Permitted Acquisitions that have been consummated during the applicable Measurement Period (calculated on a pro forma basis as though such synergies, expense reductions and cost savings had been realized on the first day of the period for which consolidated EBITDA is being determined), net of the amount of actual benefits realized during such period from such actions; provided that (i) such synergies, expense reductions and cost savings are reasonably identifiable, factually supportable, expected to have a continuing impact on the operations of the Borrower and its subsidiaries and have been determined by the Borrower in good faith to be reasonably anticipated to be realizable within 12 months following any such Permitted Acquisition as set forth in reasonable detail on a certificate of a responsible officer of the Borrower delivered to the Administrative Agent and (ii) no such amounts shall be added pursuant to this clause to the extent duplicative of any expenses or charges otherwise added to consolidated EBITDA, whether through a pro forma adjustment or otherwise;
 - (vii) to the extent covered by insurance and actually reimbursed, expenses with respect to liability or casualty events or business interruption;
 - (viii) any net after-tax effect of loss for such period attributable to the early extinguishment of any Hedge Agreement; minus
- (c) without duplication, the following to the extent included in calculating such Consolidated Net Income:

- (i) Federal, state, local and foreign income tax credits of the Borrower and its Subsidiaries for such period;
- (ii) all non-cash items increasing Consolidated Net Income for such period;
- (iii) any net after-tax effect of income for such period attributable to the early extinguishment of any Hedge Agreement; and
- (iv) any cash expense made during such period which represents the reversal of any non-cash expense that was added in a prior period pursuant to clause (b)(iv) above.

Notwithstanding the foregoing to the contrary, (w) the aggregate amount added pursuant to clauses (b)(vi), (b)(vii) and (b)(viii) contained in this definition above for any period shall in no event exceed (A) during the period from the Fourth Amendment Effective Date through February 29, 2024, the amount of transaction and restructuring costs, including severance charges, that are not otherwise added back pursuant to clause (b)(v) contained in this definition above for such period, and (B) thereafter (for the avoidance of doubt, commencing with the Measurement Period ending on March 31, 2024), 10% of Consolidated EBITDA for such period (calculated prior to any such add-backs pursuant to clauses (b)(vi), (b)(vii) and (b)(viii)), (x) there shall be included in determining Consolidated EBITDA for any period, without duplication, the Acquired EBITDA of any Person or business, or attributable to any property or asset, acquired by the Borrower or any Subsidiary during such period (but not the Acquired EBITDA of any related Person or business or any Acquired EBITDA attributable to any assets or property, in each case to the extent not so acquired) in connection with a Permitted Acquisition to the extent not subsequently sold, transferred, abandoned or otherwise disposed by the Borrower or such Subsidiary, based on the actual Acquired EBITDA of such acquired entity or business for such period (including the portion thereof occurring prior to such acquisition or conversion), and (y) there shall be excluded in determining Consolidated EBITDA for any period, without duplication, the Disposed EBITDA of any Person or business, or attributable to any property or asset, Disposed of by the Borrower or any Subsidiary during such period in connection with a Specified Disposition or discontinuation of operations, based on the Disposed EBITDA of such Disposed entity or business or discontinued operations for such period (including the portion thereof occurring prior to such Disposition or discontinuation); provided, that, notwithstanding the foregoing, with respect to the Project Emerald Transaction, any Disposed EBITDA prior to April 1, 2023 shall be included in determining Consolidated EBITDA for any period.

“Consolidated Funded Indebtedness” means, as of any date of determination, for the Borrower and its Subsidiaries on a Consolidated basis, the sum of (a) the outstanding principal amount of all obligations, whether current or long-term, for borrowed money (including Obligations hereunder) and all obligations evidenced by bonds, debentures, notes, loan agreements or other similar instruments, (b) all purchase money Indebtedness, (c) all direct obligations arising under standby letters of credit, bankers' acceptances, bank guaranties, surety bonds and similar instruments (in the case of surety bonds and similar instruments, to the extent included as a liability on the Consolidated balance sheet of the Borrower and its Subsidiaries in accordance with GAAP), (d) all obligations in respect of the deferred purchase price of property or services (including, without limitation, in the form of earnouts, milestones and other contingent payment obligations to the extent included as a liability on the Consolidated balance sheet of the Borrower and its Subsidiaries in accordance with GAAP) (other than trade accounts payable in the ordinary course of business), provided that royalties (and other contingent payment obligations in the nature of a royalty payment (including those calculated based on a percentage of sales)) shall only be included in “Consolidated Funded Indebtedness” to the extent such liability exceeds the corresponding intangible item included on the Consolidated balance sheet of the Borrower and its Subsidiaries, provided that any such corresponding intangible item shall be discernible and reasonably identifiable, (e) all Attributable Indebtedness in respect of Capitalized Leases and Synthetic Lease Obligations, (f) without duplication, all Guarantees with respect to outstanding Indebtedness of the types specified in clauses (a) through (e) above of Persons other than the Borrower or any Subsidiary, and (g) all

Indebtedness of the types referred to in clauses (a) through (f) above of any partnership or joint venture (other than a joint venture that is itself a corporation or limited liability company) in which the Borrower or a Subsidiary is a general partner or joint venturer, unless such Indebtedness is expressly made non-recourse to the Borrower or such Subsidiary.

“Consolidated Interest Charges” means, for any Measurement Period, for the Borrower and its Subsidiaries on a Consolidated basis, the sum of (a) all interest, premium payments, debt discount, fees, charges and related expenses of the Borrower and its Subsidiaries in connection with borrowed money (including capitalized interest) or in connection with the deferred purchase price of assets, in each case to the extent treated as interest in accordance with GAAP (excluding customary arrangement, upfront, administrative agency and amendment fees (in each case, to the extent not in the nature of interest charges) incurred in connection with the Credit Facility) and (b) the portion of rent expense of the Borrower and its Subsidiaries under Capitalized Leases that is treated as interest in accordance with GAAP, in each case, of or by the Borrower and its Subsidiaries on a Consolidated basis for such Measurement Period. Notwithstanding the foregoing, during any Measurement Period in which any Permitted Acquisition is consummated (x) Consolidated Interest Charges for such Measurement Period shall be calculated on a pro forma basis as if such Permitted Acquisition had been consummated on the first day of such Measurement Period and (y) there shall be included in determining the Consolidated Interest Charges for such period, without duplication, the Acquired Interest Charges of any Person or business, or attributable to any property or asset, acquired by the Borrower or any Subsidiary during such period (but not the Acquired Interest Charges of any related Person or business or any Acquired Interest Charges attributable to any assets or property, in each case to the extent not so acquired) in connection with such Permitted Acquisition to the extent not subsequently sold, transferred, abandoned or otherwise disposed by the Borrower or such Subsidiary, based on the actual Acquired Interest Charges of such acquired entity or business for such period (including the portion thereof occurring prior to such acquisition or conversion).

“Consolidated Leverage Ratio” means, as of any date of determination, the ratio of (a) **Consolidated Funded Indebtedness as of such date, to (b) Consolidated EBITDA for the most recently completed Measurement Period.**

“Consolidated Net Income” means, at any date of determination, the net income (or loss) of the Borrower and its Subsidiaries on a Consolidated basis for the most recently completed Measurement Period, determined in accordance with GAAP; **provided that** Consolidated Net Income shall exclude (a) non-cash extraordinary gains and extraordinary losses for such Measurement Period, (b) the net income of any Subsidiary during such Measurement Period to the extent that the declaration or payment of dividends or similar distributions by such Subsidiary of such income is not permitted by operation of the terms of its Organization Documents or any agreement, instrument or Applicable Law applicable to such Subsidiary during such Measurement Period, except that the Borrower’s equity in any net loss of any such Subsidiary for such Measurement Period shall be included in determining Consolidated Net Income, and (c) any income (or loss) for such Measurement Period of any Person if such Person is not a Subsidiary, except that the Borrower’s equity in the net income of any such Person for such Measurement Period shall be included in Consolidated Net Income up to the net amount of cash actually received by the Borrower or a Subsidiary from such Person during such Measurement Period as a dividend or other distribution (and in the case of a dividend or other distribution to a Subsidiary, such Subsidiary is not precluded from further distributing such amount to the Borrower as described in clause (b) of this proviso).

“Consolidated Tangible Assets” means, at any time, the total assets of the Borrower and its Subsidiaries determined on a Consolidated basis at such time **less** the amount of all intangible assets at such time, including, without limitation, all goodwill, customer lists, franchises, licenses, computer

software, patents, trademarks, trade names, copyrights, service marks, brand names, unamortized deferred charges, unamortized debt discount and capitalized research and development costs.

“Contractual Obligation” means, as to any Person, any provision of any security issued by such Person or of any agreement, instrument or other undertaking to which such Person is a party or by which it or any of its property is bound.

“Control” means the possession, directly or indirectly, of the power to direct or cause the direction of the management or policies of a Person, whether through the ability to exercise voting power, by contract or otherwise. “Controlling” and “Controlled” have meanings correlative thereto.

“Controlled Account” means each deposit account and securities account that is subject to an account control agreement in form and substance reasonably satisfactory to the Administrative Agent and each of the applicable Issuing Lenders that is entitled to Cash Collateral hereunder at the time such control agreement is executed.

“CORRA” means a rate equal to the Canadian Overnight Repo Rate Average, as administered and published by the CORRA Administrator.

“CORRA Administrator” means the Bank of Canada (or any successor administrator of the Term CORRA Reference Rate).

“Covered Party” has the meaning assigned thereto in Section 12.26(a).

“Credit Facility” means, collectively, the Revolving Credit Facility, the Term Loan Facility, the Swingline Facility, the L/C Facility.

“Credit Parties” means, collectively, the Borrower and the Guarantors.

“Currencies” means Dollars, each Alternative Currency and each Alternative L/C Currency, and “Currency” means any of such Currencies.

“Daily Simple SONIA” means, for any RFR Rate Day, a rate per annum equal to, for any Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to Sterling, the greater of (i) SONIA for the day (such day, a “Sterling RFR Determination Day”) that is five (5) RFR Business Days prior to (A) if such RFR Rate Day is an RFR Business Day, such RFR Rate Day or (B) if such RFR Rate Day is not an RFR Business Day, the RFR Business Day immediately preceding such RFR Rate Day, in each case, as such SONIA is published by the SONIA Administrator on the SONIA Administrator’s Website; provided that if by 5:00 p.m. (London time) on the second (2nd) RFR Business Day immediately following any Sterling RFR Determination Day, SONIA in respect of such Sterling RFR Determination Day has not been published on the SONIA Administrator’s Website and a Benchmark Replacement Date with respect to Daily Simple SONIA has not occurred, then SONIA for such Sterling RFR Determination Day will be SONIA as published in respect of the first preceding RFR Business Day for which such SONIA was published on the SONIA Administrator’s Website; provided further that SONIA as determined pursuant to this proviso shall be utilized for purposes of calculation of Daily Simple SONIA for no more than three (3) consecutive RFR Rate Days and (ii) the Floor.

Any change in Daily Simple SONIA due to a change in SONIA shall be effective from and including the effective date of such change in SONIA without notice to the Borrower.

“Daily Simple SONIA Loan” means any Loan that bears interest at a rate based on Daily Simple SONIA.

“Debtor Relief Laws” means the Bankruptcy Code of the United States of America, and all other liquidation, conservatorship, bankruptcy, assignment for the benefit of creditors, moratorium, rearrangement, receivership, insolvency, reorganization, or similar debtor relief laws of the United States or other applicable jurisdictions from time to time in effect.

“Default” means any of the events specified in Section 10.1 which with the passage of time, the giving of notice or any other condition, would constitute an Event of Default.

“Defaulting Lender” means, subject to Section 5.15(b), any Lender that (a) has failed to (i) fund all or any portion of the Revolving Credit Loans or the Term Loans required to be funded by it hereunder within two Business Days of the date such Loans were required to be funded hereunder unless such Lender notifies the Administrative Agent and the Borrower in writing that such failure is the result of such Lender’s determination that one or more conditions precedent to funding (each of which conditions precedent, together with any applicable default, shall be specifically identified in such writing) has not been satisfied, or (ii) pay to the Administrative Agent, any Issuing Lender, the Swingline Lender or any other Lender any other amount required to be paid by it hereunder (including in respect of participations in Letters of Credit or Swingline Loans) within two Business Days of the date when due, (b) has notified the Borrower, the Administrative Agent, any Issuing Lender or the Swingline Lender in writing that it does not intend to comply with its funding obligations hereunder, or has made a public statement to that effect (unless such writing or public statement relates to such Lender’s obligation to fund a Loan hereunder and states that such position is based on such Lender’s determination that a condition precedent to funding (which condition precedent, together with any applicable default, shall be specifically identified in such writing or public statement) cannot be satisfied), (c) has failed, within three Business Days after written request by the Administrative Agent or the Borrower, to confirm in writing to the Administrative Agent and the Borrower that it will comply with its prospective funding obligations hereunder (provided that such Lender shall cease to be a Defaulting Lender pursuant to this clause (c) upon receipt of such written confirmation by the Administrative Agent and the Borrower), or (d) has, or has a direct or indirect parent company that has, (i) become the subject of a proceeding under any Debtor Relief Law, (ii) had appointed for it a receiver, custodian, conservator, trustee, administrator, assignee for the benefit of creditors or similar Person charged with reorganization or liquidation of its business or assets, including the FDIC or any other state or federal regulatory authority acting in such a capacity or (iii) become the subject of a Bail-In Action; provided that a Lender shall not be a Defaulting Lender solely by virtue of the ownership or acquisition of any equity interest in that Lender or any direct or indirect parent company thereof by a Governmental Authority so long as such ownership interest does not result in or provide such Lender with immunity from the jurisdiction of courts within the United States or from the enforcement of judgments or writs of attachment on its assets or permit such Lender (or such Governmental Authority) to reject, repudiate, disavow or disaffirm any contracts or agreements made with such Lender. Any determination by the Administrative Agent that a Lender is a Defaulting Lender under any one or more of clauses (a) through (d) above shall be conclusive and binding absent manifest error, and such Lender shall be deemed to be a Defaulting Lender (subject to Section 5.15(b)) upon delivery of written notice of such determination to the Borrower, the Issuing Lenders, the Swingline Lender and each Lender.

“Deposit Account Control Agreement” shall mean an agreement in form and substance reasonably satisfactory to the Administrative Agent establishing the Administrative Agent’s “control” (as such term is defined in Section 9-104 of the UCC) with respect to, or otherwise perfecting (in any

comparable manner with respect to any non-U.S. jurisdiction) the Administrative Agent's Lien on, any deposit account.

"Disposed EBITDA" shall mean, with respect to any Person or business Disposed of for any period, the amount for such period of Consolidated EBITDA of any such Person or business so Disposed (determined using such definitions as if references to the Borrower and its Subsidiaries therein were to such Person or business), as calculated by the Borrower in good faith.

"Disposition" or **"Dispose"** means the sale, transfer, license, lease or other disposition (including any sale and leaseback transaction) of any property by any Person, including by a division of a limited liability company, and including any sale, assignment, transfer or other disposal, with or without recourse, of any notes or accounts receivable or any rights and claims associated therewith.

"Disqualified Equity Interests" means, with respect to any Person, any Equity Interests of such Person that, by its terms (or by the terms of any security or other Equity Interest into which it is convertible or for which it is exchangeable) or upon the happening of any event or condition or pursuant to any agreement, (a) matures or is mandatorily redeemable (other than solely for Qualified Equity Interests), pursuant to a sinking fund obligation or otherwise (except as a result of a Change of Control or asset sale so long as any rights of the holders thereof upon the occurrence of a Change of Control or asset sale event shall be subject to the prior repayment in full in cash of the Loans, Obligations (including, without limitation contingent reimbursement obligations) in respect of Letters of Credit and all other Obligations (other than contingent indemnification obligations as to which no claim has been made) and the termination of the Commitments), (b) is redeemable at the option of the holder thereof (other than solely for Qualified Equity Interests) (except as a result of a Change of Control or asset sale so long as any rights of the holders thereof upon the occurrence of a Change of Control or asset sale event shall be subject to the prior repayment in full in cash of the Loans, Obligations (including, without limitation contingent reimbursement obligations) in respect of Letters of Credit and all other Obligations (other than contingent indemnification obligations as to which no claim has been made) and the termination of the Commitments), in whole or in part, (c) provides for the scheduled payments of dividends in cash or (d) is or may be convertible into or exchangeable for Indebtedness or any other Equity Interest that would constitute Disqualified Equity Interests, in each case, prior to the date that is one hundred eighty (180) days after the latest scheduled maturity date of the Loans and Commitments; provided that Equity Interests issued pursuant to a plan for the benefit of employees of Borrower or its Subsidiaries or by any such plan to such employees shall not constitute Disqualified Equity Interests solely because it may be required to be repurchased by Borrower or its Subsidiaries in order to satisfy applicable statutory or regulatory obligations.

"Dollar Equivalent" means, subject to Section 1.11, for any amount, at the time of determination thereof, (a) if such amount is expressed in Dollars, such amount, (b) if such amount is expressed in ~~a-currency other Dollars~~an Alternative Currency, the equivalent of such amount in Dollars determined by the Administrative Agent, at such time on the basis of the Spot Rate for such ~~currency~~Alternative Currency determined in respect of the most recent Revaluation Date for the purchase of Dollars with such ~~currency~~Alternative Currency.

"Dollars" or **"\$"** means, unless otherwise qualified, dollars in lawful currency of the United States.

"Domestic Subsidiary" means any Subsidiary organized under the laws of any political subdivision of the United States, but excluding any Subsidiary of the Borrower directly or indirectly

owned by a Subsidiary organized under the laws of any political subdivision outside than the United States.

“EEA Financial Institution” means (a) any credit institution or investment firm established in any EEA Member Country which is subject to the supervision of an EEA Resolution Authority, (b) any entity established in an EEA Member Country which is a parent of an institution described in clause (a) of this definition, or (c) any financial institution established in an EEA Member Country which is a subsidiary of an institution described in clauses (a) or (b) of this definition and is subject to consolidated supervision with its parent.

“EEA Member Country” means any of the member states of the European Union, Iceland, Liechtenstein, and Norway.

“EEA Resolution Authority” means any public administrative authority or any Person entrusted with public administrative authority of any EEA Member Country (including any delegatee) having responsibility for the resolution of any credit institution or investment firm established in any EEA Member Country.

“EI/Adapt Intercompany Loan” has the meaning assigned thereto in Section 9.3(t).

“EI/PaxVax Intercompany Loan” has the meaning assigned thereto in Section 9.3(v).

“Electronic Record” has the meaning assigned to that term in, and shall be interpreted in accordance with, 15 U.S.C. 7006.

“Electronic Signature” has the meaning assigned to that term in, and shall be interpreted in accordance with, 15 U.S.C. 7006.

“Eligible Assignee” means any Person that meets the requirements to be an assignee under Section 12.9(b)(iii), (v) and (vi) (subject to such consents, if any, as may be required under Section 12.9(b)(iii)).

“Emergent International” means Emergent International Inc., a Delaware corporation.

“Employee Benefit Plan” means (a) any employee benefit plan within the meaning of Section 3(3) of ERISA that is maintained for employees of any Credit Party or any ERISA Affiliate or (b) any Pension Plan or Multiemployer Plan that has at any time within the preceding seven (7) years been maintained, funded or administered for the employees of any Credit Party or any current or former ERISA Affiliate.

“EMU Legislation” means the legislative measures of the European Council for the introduction of, changeover to or operation of a single or unified European currency.

“Engagement Letter” means the separate letter agreement dated August 28, 2018 among the Borrower and the Lead Arranger.

“Environmental Claims” means any and all administrative, regulatory or judicial actions, suits, demands, demand letters, claims, liens, accusations, allegations, notices of noncompliance or violation, investigations (other than internal reports prepared by any Person in the ordinary course of business and not in response to any third party action or request of any kind) or proceedings relating in any way to any actual or alleged violation of or liability under any Environmental Law or relating to any permit issued, or any approval given, under any such Environmental Law, including, without limitation, any and all

claims by Governmental Authorities for enforcement, cleanup, removal, response, remedial or other actions or damages, contribution, indemnification, cost recovery, compensation or injunctive relief resulting from Hazardous Materials or arising from alleged injury or threat of injury to public health or the environment.

“Environmental Laws” means all Federal, state, local, and foreign statutes, laws, regulations, ordinances, rules, judgments, orders, decrees, permits, concessions, grants, franchises, licenses, agreements or governmental restrictions to the extent relating to pollution and the protection of the environment or the release of any materials into the environment, including those related to hazardous substances or wastes, air emissions and discharges to waste or public systems.

“Environmental Liability” means any liability, contingent or otherwise (including any liability for damages, costs of environmental remediation, fines, penalties or indemnities), of the Borrower, any other Credit Party or any of their respective Subsidiaries directly or indirectly resulting from or based upon (a) violation of any Environmental Law, (b) the generation, use, handling, transportation, storage, treatment or disposal of any Hazardous Materials, (c) exposure to any Hazardous Materials, (d) the release or threatened release of any Hazardous Materials into the environment or (e) any contract, agreement or other consensual arrangement pursuant to which liability is assumed or imposed with respect to any of the foregoing.

“Environmental Permit” means any permit, approval, identification number, license or other authorization required under any Environmental Law.

“Equity Interests” means (a) in the case of a corporation, capital stock, (b) in the case of an association or business entity, any and all shares, interests, participations, rights or other equivalents (however designated) of capital stock, (c) in the case of a partnership, partnership interests (whether general or limited), (d) in the case of a limited liability company, membership interests, (e) any other interest or participation that confers on a Person the right to receive a share of the profits and losses of, or distributions of assets of, the issuing Person and (f) any and all warrants, rights or options to purchase any of the foregoing.

“ERISA” means the Employee Retirement Income Security Act of 1974.

“ERISA Affiliate” means any trade or business (whether or not incorporated) under common control with the Borrower within the meaning of Section 414(b) or (c) of the Code (and Sections 414(m) and (o) of the Code for purposes of provisions relating to Section 412 of the Code).

“ERISA Event” means (a) a Reportable Event with respect to a Pension Plan; (b) the withdrawal of the Borrower or any ERISA Affiliate from a Pension Plan subject to Section 4063 of ERISA during a plan year in which such entity was a “substantial employer” (as defined in Section 4001(a)(2) of ERISA) or a cessation of operations that is treated as such a withdrawal under Section 4062(e) of ERISA; (c) a complete or partial withdrawal by the Borrower or any ERISA Affiliate from a Multiemployer Plan or notification that a Multiemployer Plan is in reorganization; (d) the filing of a notice of intent to terminate, the treatment of a Pension Plan amendment as a termination under Section 4041 or 4041A of ERISA; (e) the institution by the PBGC of proceedings to terminate a Pension Plan; (f) any event or condition which constitutes grounds under Section 4042 of ERISA for the termination of, or the appointment of a trustee to administer, any Pension Plan; or (g) the determination that any Pension Plan is considered an at-risk plan or a plan in endangered or critical status within the meaning of Sections 430, 431 and 432 of the Code or Sections 303, 304 and 305 of ERISA; or (h) the imposition of any liability

under Title IV of ERISA, other than for PBGC premiums due but not delinquent under Section 4007 of ERISA, upon the Borrower or any ERISA Affiliate.

“Erroneous Payment” has the meaning assigned thereto in Section 11.11(a).

“Erroneous Payment Deficiency Assignment” has the meaning assigned thereto in Section 11.11(d).

“Erroneous Payment Impacted Class” has the meaning assigned thereto in Section 11.11(d).

“Erroneous Payment Return Deficiency” has the meaning assigned thereto in Section 11.11(d).

“EU Bail-In Legislation Schedule” means the EU Bail-In Legislation Schedule published by the Loan Market Association (or any successor thereto), as in effect from time to time.

“EURIBOR” has the meaning assigned thereto in the definition of “Eurocurrency Rate”.

“Euro” and “€” mean the single currency of the Participating Member States introduced in accordance with the EMU Legislation.

“Eurocurrency Banking Day” means ~~(a)~~, for Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Euros, a TARGET Day ~~and (b) for Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Canadian Dollars, any day (other than a Saturday or Sunday) on which banks are open for business in Toronto; provided, that for purposes of notice requirements in Sections 2.3(a), 2.4(c), 4.2(a), 4.4(a) and 5.2, in each case, such day is also a Business Day.~~

“Eurocurrency Rate” means, for any Eurocurrency Rate Loan for any Interest Period:

~~(a) denominated in Euros, the greater of (i) the rate of interest per annum equal to the Euro Interbank Offered Rate (“EURIBOR”) as administered by the European Money Markets Institute, or a comparable or successor administrator approved by the Administrative Agent, for a period comparable to the applicable Interest Period, at approximately 11:00 a.m. (Brussels time) on the applicable Rate Determination Date and (ii) the Floor.~~

~~(b) denominated in Canadian Dollars, the greater of (i) the rate per annum equal to the rate determined by the Administrative Agent on the basis of the rate applicable to Canadian Dollar bankers’ acceptances (“CDOR”) as administered by Refinitiv Benchmarks Services (UK) Limited, or a comparable or successor administrator approved by the Administrative Agent, for a period comparable to the applicable Interest Period, at approximately 10:00 a.m. (Toronto time) on the applicable Rate Determination Date and (ii) the Floor; and~~

~~(c) if applicable and approved by the Administrative Agent and the Lenders pursuant to Section 1.13, denominated in any other Currency (other than a Currency referenced in clauses (a) and (b) above or Sterling), the greater of (i) the rate designated with respect to such Currency at the time such Currency is approved by the Administrative Agent and the Lenders pursuant to Section 1.13 and (ii) the Floor.~~

“Eurocurrency Rate Loan” means any Loan bearing interest at a rate based on the Adjusted Eurocurrency Rate as provided in Section 5.1(a).

“Eurocurrency Reserve Percentage” means, for any day, the percentage which is in effect for such day as prescribed by the FRB for determining the maximum reserve requirement (including any

basic, supplemental or emergency reserves) in respect of eurocurrency liabilities or any similar category of liabilities for a member bank of the Federal Reserve System in New York City or any other reserve ratio or analogous requirement of any central banking or financial regulatory authority imposed in respect of the maintenance of the Commitments or the funding of the Loans. The Adjusted Eurocurrency Rate for each outstanding Loan shall be adjusted automatically as of the effective date of any change in the Eurocurrency Reserve Percentage.

“Event of Default” means any of the events specified in Section 10.1; provided that any requirement for passage of time, giving of notice, or any other condition, has been satisfied.

“Exchange Act” means the Securities Exchange Act of 1934 (15 U.S.C. § 77 *et seq.*).

“Excluded Subsidiary” means (a) any Immaterial Subsidiary, (b) any CFC-and, (c) any direct or indirect Domestic Subsidiary of a Foreign Subsidiary that is a CFC- or (d) each other Subsidiary with respect to which, the Borrower and the Administrative Agent (acting in its reasonable discretion) agrees that (i) the cost or other consequences of providing a guarantee of the Obligations shall be excessive in view of the benefits to be obtained by the Lenders therefrom or (ii) a guarantee of the Obligations to be provided could reasonably be expected to result in a material adverse tax consequence for the Borrower and its Subsidiaries, taken as a whole, as confirmed by the Administrative Agent in its reasonable discretion.

“Excluded Swap Obligation” means, with respect to any Credit Party, any Swap Obligation if, and to the extent that, all or a portion of the liability of such Credit Party for or the guarantee of such Credit Party of, or the grant by such Credit Party of a security interest to secure, such Swap Obligation (or any liability or guarantee thereof) is or becomes illegal under the Commodity Exchange Act or any rule, regulation or order of the Commodity Futures Trading Commission (or the application or official interpretation of any thereof) by virtue of such Credit Party’s failure for any reason to constitute an “eligible contract participant” as defined in the Commodity Exchange Act and the regulations thereunder at the time the liability for or the guarantee of such Credit Party or the grant of such security interest becomes effective with respect to such Swap Obligation (such determination being made after giving effect to any applicable keepwell, support or other agreement for the benefit of the applicable Credit Party, including under the keepwell provisions in the Guaranty Agreement). If a Swap Obligation arises under a master agreement governing more than one swap, such exclusion shall apply only to the portion of such Swap Obligation that is attributable to swaps for which such guarantee or security interest is or becomes illegal for the reasons identified in the immediately preceding sentence of this definition.

“Excluded Taxes” means any of the following Taxes imposed on or with respect to a Recipient or required to be withheld or deducted from a payment to a Recipient, (a) Taxes imposed on or measured by net income (however denominated), franchise Taxes, and branch profits Taxes, in each case, (i) imposed as a result of such Recipient being organized under the laws of, or having its principal office or, in the case of any Lender, its applicable Lending Office located in, the jurisdiction imposing such Tax (or any political subdivision thereof) or (ii) that are Other Connection Taxes, (b) in the case of a Lender, United States federal withholding Taxes imposed on amounts payable to or for the account of such Lender with respect to an applicable interest in a Loan or Revolving Credit Commitment pursuant to a law in effect on the date on which (i) such Lender acquires such interest in the Loan or Revolving Credit Commitment (other than pursuant to an assignment request by the Borrower under Section 5.12(b)) or (ii) such Lender changes its Lending Office, except in each case to the extent that, pursuant to Section 5.11, amounts with respect to such Taxes were payable either to such Lender’s assignor immediately before such Lender became a party hereto or to such Lender immediately before it changed its Lending Office,

(c) Taxes attributable to such Recipient's failure to comply with Section 5.11(g) and (d) any United States federal withholding Taxes imposed under FATCA.

"Existing Credit Agreement" has the meaning assigned thereto in the Statement of Purpose.

"Existing Letter of Credit" means each of those letters of credit existing on the Closing Date and identified on Schedule 1.1(a).

"Extensions of Credit" means, as to any Lender at any time, (a) an amount equal to the sum of (i) the aggregate principal amount of all Revolving Credit Loans made by such Lender then outstanding, (ii) such Lender's Revolving Credit Commitment Percentage of the L/C Obligations then outstanding, (iii) such Lender's Revolving Credit Commitment Percentage of the Swingline Loans then outstanding and (iv) the aggregate principal amount of Term Loans, if any, made by such Lender then outstanding, or (b) the making of any Loan or participation in any Letter of Credit by such Lender, as the context requires.

"FASB ASC" means the Accounting Standards Codification of the Financial Accounting Standards Board.

"FATCA" means Sections 1471 through 1474 of the Code, as of the date of this Agreement (or any amended or successor version that is substantively comparable and not materially more onerous to comply with), any current or future regulations or official interpretations thereof and any agreements entered into pursuant to Section 1471(b)(1) of the Code.

"FDA" means the U.S. Food and Drug Administration (or analogous foreign, state or local Governmental Authority) and any successor thereto.

"FDIC" means the Federal Deposit Insurance Corporation.

"Federal Funds Rate" means, for any day, the rate per annum equal to the weighted average of the rates on overnight federal funds transactions with members of the Federal Reserve System, as published by the Federal Reserve Bank of New York on the Business Day next succeeding such day, provided that if such rate is not so published for any day which is a Business Day, the Federal Funds Rate for such day shall be the average of the quotation for such day on such transactions received by the Administrative Agent from three federal funds brokers of recognized standing selected by the Administrative Agent. Notwithstanding the foregoing, if the Federal Funds Rate shall be less than zero, such rate shall be deemed to be zero for purposes of this Agreement.

"Fee Letter" means (a) means the separate letter agreement dated August 28, 2018 among the Borrower, Wells Fargo and the Lead Arranger and (b) any letter between the Borrower and any Issuing Lender (other than Wells Fargo) relating to certain fees payable to such Issuing Lender in its capacity as such.

"Fiscal Year" means the fiscal year of the Borrower and its Subsidiaries ending on December 31.

"Flood Insurance Laws" means, collectively, (a) the National Flood Insurance Act of 1968, (b) the Flood Disaster Protection Act of 1973, (c) the National Flood Insurance Reform Act of 1994, (d) the Flood Insurance Reform Act of 2004 and (e) the Biggert-Waters Flood Insurance Reform Act of 2012, as each of the foregoing is now or hereafter in effect and any successor statute to any of the foregoing.

"Floor" means a rate of interest equal to 0%.

["Forbearance Agreement and Sixth Amendment"](#) means that certain Forbearance Agreement and Sixth Amendment dated as of February 29, 2024.

["Foreign Government Scheme or Arrangement"](#) has the meaning assigned thereto in [Section 7.12\(d\)](#).

["Foreign Lender"](#) means a Lender that is not a U.S. Person.

["Foreign Plan"](#) has the meaning assigned thereto in [Section 7.12\(d\)](#).

["Foreign Subsidiary"](#) means any Subsidiary that is not a Domestic Subsidiary.

["Fourth Amendment"](#) means the Fourth Amendment to Amended and Restated Credit Agreement dated as of the Fourth Amendment Effective Date.

["Fourth Amendment Effective Date"](#) means May 15, 2023.

["FRB"](#) means the Board of Governors of the Federal Reserve System of the United States.

["Fronting Exposure"](#) means, at any time there is a Defaulting Lender, (a) with respect to any Issuing Lender, such Defaulting Lender's Revolving Credit Commitment Percentage of the outstanding L/C Obligations with respect to Letters of Credit issued by such Issuing Lender, other than such L/C Obligations as to which such Defaulting Lender's participation obligation has been reallocated to other Lenders or Cash Collateralized in accordance with the terms hereof and (b) with respect to the Swingline Lender, such Defaulting Lender's Revolving Credit Commitment Percentage of outstanding Swingline Loans other than Swingline Loans as to which such Defaulting Lender's participation obligation has been reallocated to other Lenders or Cash Collateralized in accordance with the terms hereof.

["Fund"](#) means any Person (other than a natural Person) that is (or will be) engaged in making, purchasing, holding or otherwise investing in commercial loans, bonds and similar extensions of credit in the ordinary course of its activities.

["GAAP"](#) means generally accepted accounting principles in the United States set forth in the opinions and pronouncements of the Accounting Principles Board and the American Institute of Certified Public Accountants and statements and pronouncements of the Financial Accounting Standards Board or such other principles as may be approved by a significant segment of the accounting profession in the United States, that are applicable to the circumstances as of the date of determination, consistently applied.

["Government Furnished Property"](#) has the meaning assigned thereto in [Section 7.8\(a\)](#).

["Governmental Authority"](#) means the government of the United States or any other nation, or of any political subdivision thereof, whether state or local, and any agency, authority, instrumentality, regulatory body, court, central bank or other entity exercising executive, legislative, judicial, taxing, regulatory or administrative powers or functions of or pertaining to government (including any supra-national bodies such as the European Union or the European Central Bank).

["Guarantee"](#) of or by any Person (the ["guarantor"](#)) means any obligation, contingent or otherwise, of the guarantor guaranteeing or having the economic effect of guaranteeing any Indebtedness or other monetary obligation of any other Person (the ["primary obligor"](#)) in any manner, whether directly or indirectly, and including any obligation of the guarantor, direct or indirect, (a) to purchase or pay (or advance or supply funds for the purchase or payment of) such Indebtedness or other monetary obligation

or to purchase (or to advance or supply funds for the purchase of) any security for the payment thereof, (b) to purchase or lease property, securities or services for the purpose of assuring the owner of such Indebtedness or other obligation of the payment thereof, (c) to maintain working capital, equity capital or any other financial statement condition or liquidity of the primary obligor so as to enable the primary obligor to pay such Indebtedness or other obligation, (d) as an account party in respect of any letter of credit or letter of guaranty issued to support such Indebtedness or obligation or (e) for the purpose of assuming in any other manner the obligee in respect of such Indebtedness or other obligation of the payment or performance thereof or to protect such obligee against loss in respect thereof (whether in whole or in part).

“Guarantors” means, collectively, the ~~Domestic~~-Subsidiaries of the Borrower (other than an Excluded Subsidiary) listed on Part (c) of Schedule 7.13 that is identified as a “Guarantor” and each other ~~Domestic~~-Subsidiary of the Borrower that shall be required to execute and deliver a guaranty or guaranty supplement pursuant to Section 8.12. The Guarantors as of the Closing Date are listed on Part (c) of Schedule 7.13.

“Guaranty Agreement” means, collectively, (a) the Amended and Restated Guaranty Agreement of even date herewith made by the Guarantors and the Borrower in favor of the Administrative Agent for the benefit of the Secured Parties and (b) each other guaranty and guaranty supplement delivered pursuant to Section 8.12.

“Hazardous Materials” means all explosive or radioactive substances or wastes and all hazardous or toxic substances, wastes or other pollutants, including petroleum or petroleum distillates, asbestos or asbestos-containing materials, polychlorinated biphenyls, radon gas, infectious or medical wastes and all other substances or wastes of any nature regulated pursuant to any Environmental Law.

“Hedge Agreement” means (a) any and all rate swap transactions, basis swaps, credit derivative transactions, forward rate transactions, commodity swaps, commodity options, forward commodity contracts, equity or equity index swaps or options, bond or bond price or bond index swaps or options or forward bond or forward bond price or forward bond index transactions, interest rate options, forward foreign exchange transactions, cap transactions, floor transactions, collar transactions, currency swap transactions, cross-currency rate swap transactions, currency options, spot contracts, or any other similar transactions or any combination of any of the foregoing (including any options to enter into any of the foregoing), whether or not any such transaction is governed by or subject to any master agreement, and (b) any and all transactions of any kind, and the related confirmations, which are subject to the terms and conditions of, or governed by, any form of master agreement published by the International Swaps and Derivatives Association, Inc., any International Foreign Exchange Master Agreement, or any other master agreement.

“Hedge Bank” means any Person that, (a) at the time it enters into a Hedge Agreement with the Borrower or any of its Subsidiaries permitted under Article IX, is a Lender, an Affiliate of a Lender, the Administrative Agent or an Affiliate of the Administrative Agent or (b) at the time it (or its Affiliate) becomes a Lender or the Administrative Agent (including on the Closing Date), is a party to a Hedge Agreement with the Borrower or any of its Subsidiaries, in each case in its capacity as a party to such Hedge Agreement.

“IFRS” means international accounting standards within the meaning of IAS Regulation 1606/2002 to the extent applicable to the relevant financial statements delivered under or referred to herein.

“**Immaterial Subsidiary**” means any **Domestic** Subsidiary of the Borrower that (a) together with its **Domestic** Subsidiaries, (i) contributed less than five percent (5%) of the total revenues of the Borrower and its **Domestic** Subsidiaries, on a Consolidated basis, during the most recent Measurement Period, and (ii) as of any applicable date of determination has assets that constitute less than five percent (5%) of the aggregate net book value of the assets of the Borrower and its **Domestic** Subsidiaries, on a Consolidated basis (each of which calculations, for any Immaterial Subsidiary organized or acquired since the end of such period or such date, as the case may be, shall be determined on a pro forma basis as if such Subsidiary were in existence or acquired on such date), (b) does not own any other Subsidiaries (other than Excluded Subsidiaries) and (c) has been designated as such on Schedule 7.13 (as supplemented from time to time pursuant to the terms hereof) or by the Borrower in a written notice delivered to the Administrative Agent (other than any such Subsidiary as to which the Borrower has revoked such designation by written notice to the Administrative Agent). Notwithstanding the foregoing, in no event shall any **Domestic** Subsidiary be designated as an Immaterial Subsidiary if it (x) is an obligor or guarantor of (i) any unsecured Indebtedness with an aggregate principal amount in excess of the Threshold Amount, (ii) any Subordinated Indebtedness or (iii) any Indebtedness that is secured on a junior basis to the Secured Obligations, (y) owns, or otherwise licenses or has the right to use, intellectual property material to the operation of the Borrower and its Subsidiaries or (z) owns the Equity Interests of a Subsidiary that is not an Immaterial Subsidiary.

“**Indebtedness**” means, as to any Person at a particular time, without duplication, all of the following, whether or not included as indebtedness or liabilities in accordance with GAAP:

- (a) all obligations of such Person for borrowed money and all obligations of such Person evidenced by bonds, debentures, notes, loan agreements or other similar instruments;
- (b) all direct or contingent obligations of such Person arising under letters of credit, bankers' acceptances, bank guaranties, surety bonds and similar instruments (excluding letters of credit issued in respect of trade payables);
- (c) net obligations of such Person under any Hedge Agreement;
- (d) all obligations of such Person to pay the deferred purchase price (including, without limitation, in the form of earnouts, milestones and other contingent payment obligations but not until such obligations become a liability on the consolidated balance sheet of such Person in accordance with GAAP) of property or services (other than trade accounts payable in the ordinary course of business and, in each case, not past due for more than 60 days after the date on which such trade account payable was created);
- (e) indebtedness (excluding prepaid interest thereon) secured by a Lien on property owned or being purchased by such Person (including indebtedness arising under conditional sales or other title retention agreements), whether or not such indebtedness shall have been assumed by such Person or is limited in recourse;
- (f) all Attributable Indebtedness in respect of Capitalized Leases and Synthetic Lease Obligations of such Person and all Synthetic Debt of such Person;
- (g) all obligations of such Person in respect of Disqualified Equity Interests of such Person or any other Person, valued, in the case of a redeemable preferred interest, at the greater of its voluntary or involuntary liquidation preference plus accrued and unpaid dividends, in each case to the extent required to be included as a liability on the consolidated balance sheet of the Borrower and its Subsidiaries in accordance with GAAP; and
- (h) all Guarantees of such Person in respect of any of the foregoing.

For all purposes hereof, the Indebtedness of any Person (x) shall include the Indebtedness of any partnership or joint venture (other than a joint venture that is itself a corporation or limited liability company) in which such Person is a general partner or a joint venturer, unless such Indebtedness is expressly made non-recourse to such Person and (y) shall not include (i) prepaid or deferred revenue

arising in the ordinary course of business and (ii) endorsements of checks or drafts arising in the ordinary course of business. The amount of any net obligation under any Hedge Agreement on any date shall be deemed to be the Swap Termination Value thereof as of such date.

“Indemnified Taxes” means (a) Taxes, other than Excluded Taxes, imposed on or with respect to any payment made by or on account of any obligation of any Credit Party under any Loan Document and (b) to the extent not otherwise described in clause (a), Other Taxes.

“Indemnitee” has the meaning assigned thereto in Section 12.3(b).

“Information” has the meaning assigned thereto in Section 12.10.

“Initial Term Loan” means the term loan made, or to be made, to the Borrower by the Term Loan Lenders pursuant to Section 4.1.

“Interest Payment Date” means (a) as to any Base Rate Loan or Daily Simple SONIA Loan, the last Business Day of each March, June, September and December and the Applicable Maturity Date and (b) as to any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, the last day of each Interest Period therefor and, in the case of any Interest Period of more than three (3) months’ duration, each day prior to the last day of such Interest Period that occurs at three-month intervals after the first day of such Interest Period; provided, that each such three-month interval payment day shall be the immediately succeeding Business Day if such day is not a Business Day, unless such day is not a Business Day but is a day of the relevant month after which no further Business Day occurs in such month, in which case such day shall be the immediately preceding Business Day and the Applicable Maturity Date.

“Interest Period” means, as to each any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, the period commencing on the date such Loan is disbursed or converted to or continued as a Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, as applicable, and ending on the date one (1), three (3) or ~~six~~ (except with respect to any Term CORRA Loan bearing interest based on CDOR) six (6) months thereafter, in each case as selected by the Borrower in its Notice of Borrowing or Notice of Conversion/Continuation and subject to availability; provided that:

(a) the Interest Period shall commence on the date of advance of or conversion to any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, as applicable, and, in the case of immediately successive Interest Periods, each successive Interest Period shall commence on the date on which the immediately preceding Interest Period expires;

(b) if any Interest Period would otherwise expire on a day that is not a Business Day, such Interest Period shall expire on the next succeeding Business Day; provided that if any Interest Period would otherwise expire on a day that is not a Business Day but is a day of the month after which no further Business Day occurs in such month, such Interest Period shall expire on the immediately preceding Business Day;

(c) any Interest Period that begins on the last Business Day of a calendar month (or on a day for which there is no numerically corresponding day in the calendar month at the end of such Interest Period) shall end on the last Business Day of the relevant calendar month at the end of such Interest Period;

| (d) no Interest Period shall extend beyond the Applicable Maturity Date, and Interest Periods shall be selected by the Borrower so as to permit the Borrower to make the quarterly principal installment payments pursuant to Section 4.3 without payment of any amounts pursuant to Section 5.9;

| (e) there shall be no more than six (6) Interest Periods in effect at any time; and

| (f) no tenor that has been removed from this definition pursuant to Section 5.8(e)(iv)5.8(c)(iv) shall be available for specification in any Notice of Borrowing or Notice of Conversion/Continuation.

“Investment” means, with respect to any Person, that such Person (a) purchases, owns, invests in or otherwise acquires (in one transaction or a series of transactions), directly or indirectly, any Equity Interests, interests in any partnership or joint venture (including, without limitation, the creation or capitalization of any Subsidiary), evidence of Indebtedness, any going business or substantially all of the assets of any other Person (or a division thereof) or any other investment or interest whatsoever in any other Person, (b) makes any Acquisition or (c) makes or permits to exist, directly or indirectly, any loans, advances or extensions of credit to, or any investment in cash or by delivery of Property in, any Person.

“Investment Company Act” means the Investment Company Act of 1940 (15 U.S.C. § 80(a)(1), *et seq.*).

“Investment Policy” means the investment policy of the Borrower and its Subsidiaries as of the Closing Date, as the same may be amended or otherwise modified from time to time.

“IP Rights” has the meaning assigned thereto in Section 7.17.

“Irish Newco Subsidiary” means Emergent Acquisition Limited, an Irish private company limited by shares, an indirect foreign subsidiary of the Borrower.

“Irish Newco/Adapt Intercompany Loan” has the meaning assigned thereto in Section 9.3(u).

“IRS” means the United States Internal Revenue Service.

“ISP” means the International Standby Practices, International Chamber of Commerce Publication No. 590 (or such later version thereof as may be in effect at the applicable time).

“Issuing Lender” means (a) solely with respect to the Existing Letters of Credit, the issuers thereof as set forth on Schedule 1.1(a), (b) the initial Issuing Lenders referenced on Schedule 1.1(c) and (c) any other Revolving Credit Lender to the extent it has agreed in its sole discretion to act as an “Issuing Lender” hereunder and that has been approved in writing by the Borrower and the Administrative Agent (such approval by the Administrative Agent not to be unreasonably delayed or withheld) as an “Issuing Lender” hereunder, in each case in its capacity as issuer of any Letter of Credit. No Issuing Lender set forth in clause (a) above shall have any obligation or commitment to reissue, renew, extend or amend any Existing Letter of Credit issued thereby. Any Issuing Lender may, in its discretion, arrange for one or more Letters of Credit to be issued by Affiliates of such Issuing Lender, in which case the term “Issuing Lender” shall include any such Affiliate with respect to Letters of Credit issued by such Affiliate.

“Junior Capital Raise” has the meaning assigned thereto in Section 8.20.

“L/C Commitment” means, as to any Issuing Lender, the obligation of such Issuing Lender to issue Letters of Credit for the account of the Borrower from time to time in an aggregate amount equal to

(a) for each of the initial Issuing Lenders, the amount set forth opposite the name of each such initial Issuing Lender on Schedule 1.1(c) and (b) for any other Issuing Lender becoming an Issuing Lender after the Closing Date, such amount as separately agreed to in a written agreement between the Borrower and such Issuing Lender (which such agreement shall be promptly delivered to the Administrative Agent upon execution), in each case of clauses (a) and (b) above, any such amount may be changed after the Closing Date in a written agreement between the Borrower and such Issuing Lender (which such agreement shall be promptly delivered to the Administrative Agent upon execution); provided that the L/C Commitment with respect to any Person that ceases to be an Issuing Lender for any reason pursuant to the terms hereof shall be \$0 (subject to the Letters of Credit of such Person remaining outstanding in accordance with the provisions hereof).

“L/C Facility” means the letter of credit facility established pursuant to Article III.

“L/C Obligations” means at any time, an amount equal to the sum of (a) the aggregate undrawn and unexpired amount of the then outstanding Letters of Credit and (b) the aggregate amount of drawings under Letters of Credit which have not then been reimbursed pursuant to Section 3.5.

“L/C Participants” means, with respect to any Letter of Credit, the collective reference to all the Revolving Credit Lenders other than the applicable Issuing Lender.

“L/C Sublimit” means the lesser of (a) the aggregate amount of the Revolving Credit Commitments and (b) \$10,000,000.

“Lead Arranger” means Wells Fargo Securities, LLC.

“Lender” means each Person executing this Agreement as a Lender on the Closing Date and any other Person that shall have become a party to this Agreement as a Lender pursuant to an Assignment and Assumption, other than any Person that ceases to be a party hereto as a Lender pursuant to an Assignment and Assumption. Unless the context otherwise requires, the term “Lenders” includes the Swingline Lender.

“Lending Office” means, with respect to any Lender, the office of such Lender maintaining such Lender’s Extensions of Credit, which office may, to the extent the applicable Lender notifies the Administrative Agent in writing, include an office of any Affiliate of such Lender or any domestic or foreign branch of such Lender or Affiliate.

“Letter of Credit Application” means an application requesting the applicable Issuing Lender to issue a Letter of Credit and letter of credit agreement or reimbursement agreement, in each case in the form specified by the applicable Issuing Lender from time to time.

“Letter of Credit Documents” means with respect to any Letter of Credit, such Letters of Credit, the Letter of Credit Application, a letter of credit agreement or reimbursement agreement and any other document, agreement and instrument required by the applicable Issuing Lender and relating to such Letter of Credit, in each case in the form specified by the applicable Issuing Lender from time to time.

“Letters of Credit” means the collective reference to letters of credit issued pursuant to Section 3.1 and the Existing Letters of Credit. Letters of Credit may be issued in Dollars or an Alternative L/C Currency.

“Lien” means, with respect to any asset, any mortgage, leasehold mortgage, lien, pledge, charge, security interest, hypothecation or encumbrance of any kind in respect of such asset. For the purposes of

this Agreement, a Person shall be deemed to own subject to a Lien any asset which it has acquired or holds subject to the interest of a vendor or lessor under any conditional sale agreement, Capitalized Lease or other title retention agreement relating to such asset.

Limited Condition Acquisition means any Permitted Acquisition or other Investment permitted under this Agreement that is not conditioned on the availability of, or on obtaining, third-party financing.

Liquidity means, at any time, the sum of (a) the Revolving Credit Commitments minus the Reserve minus the sum of the aggregate principal amount of all Revolving Credit Loans, the aggregate principal amount of all Swingline Loans then outstanding and the aggregate amount of all L/C Obligations at such time plus (b) all Unrestricted Cash and Cash Equivalents (excluding, to the extent theany TSA is in effect, amounts held in connection with collecting accounts receivable and processing accounts payable pursuant to the Project Emerald Transactionapplicable sale transaction).

Loan Documents means, collectively, this Agreement, each Note, the Guaranty Agreement, the Letter of Credit Documents, the Collateral Documents, the Engagement Letter, each Fee Letter, the Administrative Agent Fee Letter and each other document, instrument, certificate and agreement executed and delivered by the Credit Parties or any of their respective Subsidiaries in favor of or provided to the Administrative Agent or any Secured Party in connection with this Agreement or otherwise referred to herein or contemplated hereby (excluding any Secured Hedge Agreement and any Secured Cash Management Agreement) and designated as a "Loan Document".

Loans means the collective reference to the Revolving Credit Loans, the Swingline Loans and the Term Loans, and "Loan" means any of such Loans.

Maintenance CapEx means, for any period, the aggregate amount of Capital Expenditures made during such period for the purpose of maintaining, or extending the useful life of, any capital asset (which do not otherwise constitute normal replacements and maintenance which are properly charged to current operations).

Material Adverse Effect means (a) a material adverse effect on the operations, business assets, properties, liabilities (actual or contingent) or financial condition of the Borrower and its Subsidiaries, taken as a whole, (b) a material impairment of the ability of any Credit Party to perform its obligations under the Loan Documents to which it is a party, (c) a material impairment of the rights and remedies of the Administrative Agent or any Lender under any Loan Document or (d) an impairment of the legality, validity, binding effect or enforceability against any Credit Party of any Loan Document to which it is a party; provided that a termination of any Specified Candidate Program shall not constitute a Material Adverse Effect.

Material Contract means, with respect to the Borrower and its Subsidiaries, (a) the BioThrax Contract, (b) the AV7909 Contract and (c) each contract to which such Person is a party involving aggregate consideration payable to or by such Person of \$100,000,000 or more in any year; provided, however, notwithstanding the foregoing, (i) the AV7909 Contract shall not constitute a "Material Contract" unless AV7909 has obtained either (1) full FDA approval or (2) FDA emergency use authorization pursuant to Section 564 of the FFDCA and (ii) in no event shall the BARDA Contract constitute a "Material Contract".

Material Government Contract means, with respect to the Borrower and its Subsidiaries, the BioThrax Contract, the AV7909 Contract and each other government contract to which such Person is a party involving aggregate consideration which may be payable to such Person of \$100,000,000 or more in any year; provided, however, notwithstanding the foregoing, (i) the AV7909 Contract shall not

constitute a “Material Government Contract” unless AV7909 has obtained either (1) full FDA approval or (2) FDA emergency use authorization pursuant to Section 564 of the FFDCA and (ii) in no event shall the BARDA Contract constitute a “Material Government Contract”.

“Measurement Period” means, at any date of determination, the most recently completed four fiscal quarters of the Borrower; provided that, for purposes of calculating Consolidated EBITDA solely for purposes of Section 9.11(c) for any period between January 1, 2023 and February 29March 31, 2024, and May 31, 2025, Measurement Period means each of the periods set forth in Section 9.11(c).

“Medicaid” means that government-sponsored entitlement program under Title XIX, P.L. 89-97 of the Social Security Act, which provides federal grants to states for medical assistance based on specific eligibility criteria, as set forth on Section 1396, et seq. of Title 42 of the United States Code.

“Medicare” means that government-sponsored insurance program under Title XVIII, P.L. 89-97, of the Social Security Act, which provides for a health insurance system for eligible elderly and disabled individuals, as set forth at Section 1395, et seq. of Title 42 of the United States Code.

“Minimum Collateral Amount” means, at any time, (a) with respect to Cash Collateral consisting of cash or deposit account balances provided to reduce or eliminate Fronting Exposure during the existence of a Defaulting Lender, an amount equal to 105% of the Dollar Equivalent of the Fronting Exposure of the Issuing Lenders with respect to Letters of Credit issued and outstanding at such time, (b) with respect to Cash Collateral consisting of cash or deposit account balances provided in accordance with the provisions of Section 10.2(b), an amount equal to the Dollar Equivalent of 105% of the aggregate outstanding amount of all L/C Obligations and (c) otherwise, an amount determined by the Administrative Agent and each of the applicable Issuing Lenders that is entitled to Cash Collateral hereunder at such time in their sole discretion.

“Moody’s” means Moody’s Investors Service, Inc.

“Mortgaged Property” means any real property owned in fee that is subject to a Mortgage.

“Mortgages” means the collective reference to each mortgage, deed of trust or other real property security document, encumbering any real property now or hereafter owned in fee by any Credit Party, in each case, in form and substance reasonably satisfactory to the Administrative Agent and executed by such Credit Party in favor of the Administrative Agent, for the ratable benefit of the Secured Parties, as any such document may be amended, restated, amended and restated, supplemented or otherwise modified from time to time.

“Multiemployer Plan” means any Employee Benefit Plan of the type described in Section 4001(a)(3) of ERISA, to which the Borrower or any ERISA Affiliate makes or is obligated to make contributions, or during the preceding five plan years, has made or been obligated to make contributions.

“Multiple Employer Plan” means a Plan which has two or more contributing sponsors (including the Borrower or any ERISA Affiliate) at least two of whom are not under common control, as such a plan is described in Section 4064 of ERISA.

“Net Cash Proceeds” means (a) with respect to each Disposition and Casualty Event, the gross cash proceeds received by the Borrower or any of its Subsidiaries in respect of such event (including any cash or cash equivalents received by way of deferred payment pursuant to, or by monetization of, a note receivable or otherwise, but only as and when so received) net of the sum of (i) all fees and expenses incurred in connection with such event by the Borrower or any of its Subsidiaries, (ii) the amount of all payments

required to be made by the Borrower or any of its Subsidiaries as a result of such event to repay indebtedness secured by such assets, (iii) the amount of all taxes paid (or reasonably estimated by the Borrower to be payable; *provided* that, if such estimated taxes exceed the amount of actual taxes required to be paid in cash in respect of such event, the amount of such excess shall constitute Net Cash Proceeds) by the Borrower or any of its Subsidiaries in connection with such event, and (iv) the amount of any reserves established by the Borrower or any of its Subsidiaries in accordance with GAAP to fund purchase price adjustments, indemnification and similar contingent liabilities, the amount of which are reasonably ascertainable on or prior to the consummation of such event; *provided* that, to the extent and at the time any such amounts are released from such reserve, such amounts shall constitute Net Cash Proceeds and (b) with respect to the incurrence of Indebtedness by the Borrower or any of its Subsidiaries not permitted pursuant to Section 9.3, the cash proceeds received by the Borrower or any of its Subsidiaries from such incurrence, net of all fees and expenses incurred in connection with such event by the Borrower or any of its Subsidiaries, including attorneys' fees, investment banking fees, accountants' fees and underwriting discounts and commissions.

"Net Litigation Proceeds" means, collectively, all consideration actually paid directly or indirectly to or for the benefit of any Credit Party in connection with any litigation or arbitration proceeding (whether by judgment, award, settlement, compromise or otherwise), including, without limitation, any damages (whether compensatory, exemplary, punitive or otherwise), penalties, pre-judgment interest, post-judgment interest, and other amounts paid or property transferred to or for the benefit of any Credit Party in respect of any litigation or arbitration, net of (without duplication of amounts): (a) any fees and/or expenses (including, without limitation, reasonable attorneys' fees) incurred by or on behalf of such Credit Party related to the prosecution of such litigation or arbitration, or in connection with obtaining or collecting any of the foregoing amounts or property and (b) recoupments or set-offs of any kind, including, without limitation, any recoupments or set-offs in respect of any counterclaims or cross-claims asserted against such Credit Party in connection with such litigation or arbitration by any party.

"Non-Consenting Lender" means any Lender that does not approve any consent, waiver, amendment, modification or termination that (a) requires the approval of all Lenders or all affected Lenders in accordance with the terms of Section 12.2 and (b) has been approved by the Required Lenders.

"Non-Defaulting Lender" means, at any time, each Lender that is not a Defaulting Lender at such time.

"Non-Guarantor Subsidiary" means any Subsidiary of the Borrower that is not a Guarantor.

"Notes" means the collective reference to the Revolving Credit Notes, the Swingline Note and the Term Loan Notes.

"Notice of Account Designation" has the meaning assigned thereto in Section 2.3(b).

"Notice of Borrowing" has the meaning assigned thereto in Section 2.3(a).

"Notice of Conversion/Continuation" has the meaning assigned thereto in Section 5.2.

"Notice of Prepayment" has the meaning assigned thereto in Section 2.4(c).

"NPL" means the National Priorities List under CERCLA.

Obligations means, in each case, whether now in existence or hereafter arising: (a) the principal of and interest on (including interest accruing after the filing of any bankruptcy or similar petition) the Loans, (b) the L/C Obligations and (c) all other fees and commissions (including attorneys' fees), charges, indebtedness, loans, liabilities, financial accommodations, obligations, covenants and duties owing by the Credit Parties to the Lenders, the Issuing Lenders or the Administrative Agent, in each case under any Loan Document, with respect to any Loan or Letter of Credit of every kind, nature and description, direct or indirect, absolute or contingent, due or to become due, contractual or tortious, liquidated or unliquidated, and whether or not evidenced by any note and including interest and fees that accrue after the commencement by or against any Credit Party or any Subsidiary thereof of any proceeding under any Debtor Relief Laws, naming such Person as the debtor in such proceeding, regardless of whether such interest and fees are allowed claims in such proceeding.

OFAC means the U.S. Department of the Treasury's Office of Foreign Assets Control.

Organization Documents means, (a) with respect to any corporation, the certificate or articles of incorporation and the bylaws (or equivalent or comparable constitutive documents with respect to any non-U.S. jurisdiction); (b) with respect to any limited liability company, the certificate or articles of formation or organization and operating agreement or limited liability company agreement (or equivalent or comparable documents); and (c) with respect to any partnership, joint venture, trust or other form of business entity, the partnership, joint venture or other applicable agreement of formation or organization and any agreement, instrument, filing or notice with respect thereto filed in connection with its formation or organization with the applicable Governmental Authority in the jurisdiction of its formation or organization and, if applicable, any certificate or articles of formation or organization of such entity.

Other Connection Taxes means, with respect to any Recipient, Taxes imposed as a result of a present or former connection between such Recipient and the jurisdiction imposing such Tax (other than connections arising from such Recipient having executed, delivered, become a party to, performed its obligations under, received payments under, received or perfected a security interest under, engaged in any other transaction pursuant to or enforced any Loan Document, or sold or assigned an interest in any Loan or Loan Document).

Other Taxes means all present or future stamp, court, documentary, intangible, recording, filing or similar Taxes that arise from any payment made under, from the execution, delivery, performance, enforcement or registration of, from the receipt or perfection of a security interest under, or otherwise with respect to, any Loan Document, except any such Taxes that are Other Connection Taxes imposed with respect to an assignment (other than an assignment made pursuant to Section 5.12).

Overnight Rate means, for any day, (a) with respect to any amount denominated in Dollars, the greater of (i) the Federal Funds Rate and (ii) an overnight rate determined by the Administrative Agent (or to the extent payable to an Issuing Lender or the Swingline Lender, such Issuing Lender or Swingline Lender, as applicable, in each case, with notice to the Administrative Agent) to be customary in the place of disbursement or payment for the settlement of international banking transactions, and (b) with respect to any amount denominated in an Alternative Currency or an Alternative L/C Currency, an overnight rate determined by the Administrative Agent (or to the extent payable to an Issuing Lender or the Swingline Lender, such Issuing Lender or Swingline Lender, as applicable, in each case, with notice to the Administrative Agent) to be customary in the place of disbursement or payment for the settlement of international banking transactions.

Panama Merger Sub means Panama Merger Sub, Ltd., an exempt company incorporated with limited liability in the Cayman Islands and a Wholly-Owned indirect subsidiary of the Borrower, including its successors.

Participant has the meaning assigned thereto in Section 12.9(d).

Participant Register has the meaning assigned thereto in Section 12.9(d).

Participating Member State means any member state of the European Union that has the Euro as its lawful currency in accordance with legislation of the European Union relating to Economic and Monetary Union.

PATRIOT Act means the USA PATRIOT Act (Title III of Pub. L. 107-56 (signed into law October 26, 2001)).

PaxVax Acquisition means the acquisition consummated on October 4, 2018 by the Panama Merger Sub, by merger, of the PaxVax Target and its subsidiaries, which commercialize typhoid fever (Vivotif®) and cholera (Vaxchora®) vaccines in the United States and, with respect to Vivotif®, certain other countries.

PaxVax Acquisition Investment means any direct or indirect equity contributions, loans (including the EI/PaxVax Intercompany Loan and the PaxVax Intercompany Loan) or Investments by the Borrower or a direct or indirect Wholly-Owned Domestic Subsidiary thereof to one or more direct or indirect Wholly-Owned Foreign Subsidiaries of the Borrower to finance all or a portion of the consideration for the PaxVax Acquisition and related costs and expenses.

PaxVax Intercompany Loan has the meaning assigned thereto in Section 9.3(w).

PaxVax Target means PaxVax Holding Company Ltd., an exempted company incorporated with limited liability in the Cayman Islands.

PaxVax US means PaxVax, Inc., a Delaware corporation.

PaxVax US Integration means, on or after the Closing Date, the contemporaneous (a) assignment, transfer, dividend or distribution of all of the PaxVax US Shares by the PaxVax Target to Emergent International in exchange for the forgiveness, cancellation or reduction in the principal amount of the PaxVax Intercompany Loan by an amount equal to the fair market value of PaxVax US, (b) assignment, transfer, dividend or distribution of the PaxVax US Shares by Emergent International to the Borrower in exchange for the forgiveness, cancellation or reduction in the principal amount of the EI/PaxVax Intercompany Loan by an amount equal to the fair market value of PaxVax US and (c) related interim or series of related transactions, such that, after the consummation of each of the foregoing transactions, the Borrower shall own all of the PaxVax US Shares.

PaxVax US Shares means the issued and outstanding Equity Interests of PaxVax US.

Payment Recipient has the meaning assigned thereto in Section 11.11(a).

PBGC means the Pension Benefit Guaranty Corporation or any successor agency.

Pension Act means the Pension Protection Act of 2006.

Pension Funding Rules means the rules of the Code and ERISA regarding minimum required contributions (including any installment payment thereof) to Pension Plans and set forth in, with respect to plan years ending prior to the effective date of the Pension Act, Section 412 of the Code and Section 302 of ERISA, each as in effect prior to the Pension Act and, thereafter, Section 412, 430, 431, 432 and 436 of the Code and Sections 302, 303, 304 and 305 of ERISA.

Pension Plan means any employee pension benefit plan (including a Multiple Employer Plan or a Multiemployer Plan), that is maintained or is contributed to by the Borrower and any ERISA Affiliate and is covered by Title IV of ERISA and is subject to the minimum funding standards under Section 412 of the Code.

Permitted Acquisition has the meaning assigned thereto in Section 9.2(g).

Permitted Liens means the Liens permitted pursuant to Section 9.1.

Person means any natural person, corporation, limited liability company, trust, joint venture, association, company, partnership, Governmental Authority or other entity.

Plan means any employee benefit plan within the meaning of Section 3(3) of ERISA (including a Pension Plan), maintained for employees of the Borrower or any ERISA Affiliate or any such Plan to which the Borrower or any ERISA Affiliate is required to contribute on behalf of any of its employees.

Platform means Debt Domain, Intralinks, SyndTrak or a substantially similar electronic transmission system.

Prime Rate means, at any time, the rate of interest per annum publicly announced from time to time by the Administrative Agent as its prime rate. Each change in the Prime Rate shall be effective as of the opening of business on the day such change in such prime rate occurs. The parties hereto acknowledge that the rate announced publicly by the Administrative Agent as its prime rate is an index or base rate and shall not necessarily be its lowest or best rate charged to its customers or other banks.

Project Emerald Transaction has the meaning assigned thereto in the Third Amendment.

Property means any right or interest in or to property of any kind whatsoever, whether real, personal or mixed and whether tangible or intangible, including, without limitation, Equity Interests.

PTE means a prohibited transaction class exemption issued by the U.S. Department of Labor, as any such exemption may be amended from time to time.

Public Lenders has the meaning assigned thereto in Section 8.2.

Qualified Equity Interests means any Equity Interests that are not Disqualified Equity Interests.

Rate Determination Date means, with respect to any Interest Period, two (2) Eurocurrency Banking Days prior to the commencement of such Interest Period (or such other day as is generally treated as the rate fixing day by market practice in the applicable interbank market, as determined by the Administrative Agent; provided that to the extent that such market practice is not administratively feasible for the Administrative Agent, such other day as otherwise reasonably determined by the Administrative Agent).

“Recipient” means (a) the Administrative Agent, (b) any Lender or (c) any Issuing Lender, as applicable.

“Register” has the meaning assigned thereto in Section 12.9(c).

“Reimbursement Obligation” means the obligation of the Borrower to reimburse any Issuing Lender pursuant to Section 3.5 for amounts drawn under Letters of Credit issued by such Issuing Lender.

“Related Parties” means, with respect to any Person, such Person’s Affiliates and the partners, directors, officers, employees, agents, trustees, administrators, managers, advisors and representatives of such Person and of such Person’s Affiliates.

“Relevant Governmental Body” means (a) with respect to a Benchmark Replacement in respect of Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, Dollars, the FRB or the Federal Reserve Bank of New York, or a committee officially endorsed or convened by the FRB or the Federal Reserve Bank of New York, or any successor thereto and (b) with respect to a Benchmark Replacement in respect of Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, any Alternative Currency or any Alternative L/C Currency, as applicable, (i) the central bank for the Currency in which such Obligations, interest, fees, commissions or other amounts are denominated, or calculated with respect to, or any central bank or other supervisor which is responsible for supervising either (A) such Benchmark Replacement or (B) the administrator of such Benchmark Replacement or (ii) any working group or committee officially endorsed or convened by (A) the central bank for the Currency in which such Obligations, interest, fees, commissions or other amounts are denominated, or calculated with respect to, (B) any central bank or other supervisor that is responsible for supervising either (1) such Benchmark Replacement or (2) the administrator of such Benchmark Replacement, (C) a group of those central banks or other supervisors or (D) the Financial Stability Board or any part thereof.

“Removal Effective Date” has the meaning assigned thereto in Section 11.6(b).

“Reportable Event” means any of the events set forth in Section 4043(c) of ERISA, other than events for which the 30 day notice period has been waived.

“Required Lenders” means, at any time, Lenders having Total Credit Exposure representing more than 50% of the Total Credit Exposure of all Lenders. The Total Credit Exposure of any Defaulting Lender shall be disregarded in determining Required Lenders at any time.

“Required Revolving Credit Lenders” means, at any time, Revolving Credit Lenders having unused Revolving Credit Commitments and Revolving Credit Exposure representing more than 50% of the aggregate unused Revolving Credit Commitments and Revolving Credit Exposure of all Revolving Credit Lenders. The unused Revolving Credit Commitment of, and Revolving Credit Exposure held or deemed held by, any Defaulting Lender shall be disregarded in determining Required Revolving Credit Lenders at any time.

“Reserve” means (i) from the Seventh Amendment Effective Date through July 30, 2024, [**], (ii) from July 31, 2024, through September 29, 2024, [**], (iii) from September 30, 2024, through November 29, 2024, [**], and (iv) on November 30, 2024, and thereafter, [**].

“Resignation Effective Date” has the meaning assigned thereto in Section 11.6(a).

“Resolution Authority” means an EEA Resolution Authority or, with respect to any UK Financial Institution, a UK Resolution Authority.

“Responsible Officer” means the chief executive officer, president, vice president, chief financial officer, manager or executive manager (in the case of any limited liability company), treasurer, assistant treasurer or controller of a Credit Party, solely for purposes of the delivery of incumbency certificates pursuant to Section 6.1, the secretary or any assistant secretary of a Credit Party and, solely for purposes of notices given pursuant to Article II, any other officer or employee of the applicable Credit Party so designated by any of the foregoing officers in a notice to the Administrative Agent. Any document delivered hereunder that is signed by a Responsible Officer of a Credit Party shall be conclusively presumed to have been authorized by all necessary corporate, partnership and/or other action on the part of such Credit Party and such Responsible Officer shall be conclusively presumed to have acted on behalf of such Credit Party.

“Restricted Payment” means any dividend or other distribution (whether in cash, securities or other property) with respect to any capital stock or other Equity Interest of the Borrower or any Subsidiary, or any payment (whether in cash, securities or other property), including any sinking fund or similar deposit, on account of the purchase, redemption, retirement, acquisition, cancellation or termination of any such capital stock or other Equity Interest, or on account of any return of capital to the Borrower’s stockholders, partners or members (or the equivalent Person thereof).

“Revaluation Date” means, subject to Section 1.11:

- (a) with respect to any Loan denominated in an Alternative Currency, each of the following: (i) the date of the borrowing of such Loan (including any borrowing or deemed borrowing that results from the payment by the applicable Issuing Lender under any Letter of Credit denominated in an Alternative L/C Currency) but only as to the amounts so borrowed on such date, (ii) each date of a continuation of such Loan pursuant to the terms of this Agreement, but only as to the amounts so continued on such date, and (iii) such additional dates as the Administrative Agent shall determine ~~or the Required Lenders shall require~~; and
- (b) with respect to any Letter of Credit denominated in an Alternative L/C Currency, each of the following: (i) each date of issuance of such Letter of Credit, but only as to the Letter of Credit so issued on such date, (ii) ~~each date such Letter of Credit is amended to increase the face amount of such Letter of Credit but only as to the amount of such increase~~ [reserved], (iii) in the case of all Existing Letters of Credit denominated in Alternative L/C Currencies, the Closing Date, but only as to such Existing Letters of Credit and (iv) such additional dates as the Administrative Agent or the applicable Issuing Lender (with notice thereof to the Administrative Agent) shall determine ~~or the Required Lenders shall require~~.

“Revolving Credit Commitment” means (a) as to any Revolving Credit Lender, the obligation of such Revolving Credit Lender to make Revolving Credit Loans to, and to purchase participations in L/C Obligations and Swingline Loans for the account of, the Borrower hereunder in an aggregate principal Dollar Amount at any time outstanding not to exceed the amount set forth opposite such Revolving Credit Lender’s name on the Register, as such Dollar amount may be modified at any time or from time to time pursuant to the terms hereof and (b) as to all Revolving Credit Lenders, the aggregate commitment of all Revolving Credit Lenders to make Revolving Credit Loans, as such Dollar Amount may be modified at any time or from time to time pursuant to the terms hereof. The ~~aggregate Revolving Credit Commitment of all the Revolving Credit Lenders on the Fourth Amendment Effective Date shall be \$300,000,000. The~~ Revolving Credit Commitment of each Revolving Credit Lender on the ~~Fourth~~^{Seventh} Amendment Effective Date is set forth opposite the name of such Lender on

Schedule 1.1(c). The aggregate Revolving Credit Commitment of all the Revolving Credit Lenders shall be (i) from the Seventh Amendment Effective Date through July 30, 2024, \$270,000,000, (ii) from July 31, 2024, through October 30, 2024, automatically reduced to \$225,000,000, and (iii) on October 31, 2024, and thereafter, automatically reduced to \$200,000,000.

“Revolving Credit Commitment Percentage” means, with respect to any Revolving Credit Lender at any time, the percentage of the total Revolving Credit Commitments of all the Revolving Credit Lenders represented by such Revolving Credit Lender’s Revolving Credit Commitment. If the Revolving Credit Commitments have terminated or expired, the Revolving Credit Commitment Percentages shall be determined based upon the Revolving Credit Commitments most recently in effect, giving effect to any assignments. The Revolving Credit Commitment Percentage of each Revolving Credit Lender on the Fourth Amendment Effective Date is set forth opposite the name of such Lender on Schedule 1.1(c).

“Revolving Credit Exposure” means, as to any Revolving Credit Lender at any time, the aggregate principal amount at such time of its outstanding Revolving Credit Loans and such Revolving Credit Lender’s participation in L/C Obligations and Swingline Loans at such time.

“Revolving Credit Facility” means the revolving credit facility established pursuant to Article II.

“Revolving Credit Lenders” means, collectively, all of the Lenders with a Revolving Credit Commitment.

“Revolving Credit Loan” means any revolving loan made to the Borrower pursuant to Section 2.1, and all such revolving loans collectively as the context requires.

“Revolving Credit Maturity Date” means the earliest to occur of (a) May 15, 2025, (b) the date of termination of the entire Revolving Credit Commitment by the Borrower pursuant to Section 2.5, and (c) the date of termination of the Revolving Credit Commitment pursuant to Section 10.2(a).

“Revolving Credit Note” means a promissory note made by the Borrower in favor of a Revolving Credit Lender evidencing the Revolving Credit Loans made by such Revolving Credit Lender, substantially in the form attached as **Exhibit A-1**, and any substitutes therefor, and any replacements, restatements, renewals or extension thereof, in whole or in part.

“Revolving Credit Outstandings” means the sum of (a) with respect to Revolving Credit Loans and Swingline Loans on any date, the Dollar Equivalent amount of the aggregate outstanding principal amount thereof after giving effect to any borrowings and prepayments or repayments of Revolving Credit Loans and Swingline Loans, as the case may be, occurring on such date; plus (b) with respect to any L/C Obligations on any date, the Dollar Equivalent amount of the aggregate outstanding amount thereof on such date after giving effect to any Extensions of Credit occurring on such date and any other changes in the aggregate amount of the L/C Obligations as of such date, including as a result of any reimbursements of outstanding unpaid drawings under any Letters of Credit or any reductions in the maximum amount available for drawing under Letters of Credit taking effect on such date.

“RFR” means, for any Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, (a) Dollars, Term SOFR and, (b) Canadian Dollars, Term CORRA and (c) Sterling, SONIA.

“RFR Business Day” means, for any Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, (a) Dollars, any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which the Securities Industry and Financial Markets Association recommends that the

fixed income departments of its members be closed for the entire day for purposes of trading in United States government securities and, (b) Canadian Dollars, any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which banks are closed for general business in Toronto, (c) Sterling, any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which banks are closed for general business in London and (d) Euros, any day that is a TARGET Day; provided, that for purposes of notice requirements in Sections 2.3(a), 2.4(c), 4.2(a), 4.4(a) and 5.2, in each case, such day is also a Business Day.

"RFR Loan" means a Term SOFR Loan or a Daily Simple SONIA Loan, a Term CORRA Loan or a Term SOFR Loan, as the context may require.

"RFR Rate Day" means any day pursuant to which any calculation of on RFR is made.

"S&P" means Standard & Poor's Rating Service, a division of S&P Global Inc. and any successor thereto.

"Same Day Funds" means (a) with respect to disbursements and payments in Dollars, immediately available funds, and (b) with respect to disbursements and payments in an Alternative Currency or an Alternative L/C Currency, same day or other funds as may be determined by the Administrative Agent or the applicable Issuing Lender (with notice thereof to the Administrative Agent), to be customary in the place of disbursement or payment for the settlement of international banking transactions in the relevant Alternative Currency or Alternative L/C Currency.

"Sanctioned Country" means at any time, a country, region or territory which is itself (or whose government is) the subject or target of any Sanctions (including, as of the Fourth Amendment Effective Date, Cuba, Iran, North Korea, Syria, Venezuela, Crimea, and the so-called People's Republics of Donetsk and Luhansk).

"Sanctioned Person" means, at any time, (a) any Person listed in any Sanctions-related list of designated Persons maintained by OFAC (including, without limitation, OFAC's Specially Designated Nationals and Blocked Persons List and OFAC's Consolidated Non-SDN List), the U.S. Department of State, the United Nations Security Council, the European Union, any European member state, His Majesty's Treasury, or other relevant sanctions authority, (b) any Person operating, organized or resident in a Sanctioned Country, except to the extent licensed or otherwise approved and not prohibited by the applicable authority imposing such Sanctions, or (c) any Person owned or Controlled by any such Person or Persons described in clauses (a) and (b), including a Person that is deemed by OFAC to be a Sanctions target based on the ownership of such legal entity by Sanctioned Person(s).

"Sanctions" means any and all economic or financial sanctions, sectoral sanctions, secondary sanctions, trade embargoes and anti-terrorism laws, including but not limited to those imposed, administered or enforced from time to time by the U.S. government (including those administered by OFAC or the U.S. Department of State), the United Nations Security Council, the European Union, any European member state, His Majesty's Treasury, or other relevant sanctions authority with jurisdiction over any Lender, the Borrower or any of its Subsidiaries.

"SEC" means the U.S. Securities and Exchange Commission, or any Governmental Authority succeeding to any of its principal functions.

"Second Amendment Effective Date" means August 7, 2020.

“Secured Cash Management Agreement” means any Cash Management Agreement between or among the Borrower or any of its Subsidiaries and any Cash Management Bank.

“Secured Hedge Agreement” means any Hedge Agreement between or among the Borrower or any of its Subsidiaries and any Hedge Bank, including, without limitation, the Hedge Agreements set forth on Schedule 1.1(b) (it being acknowledged that this Agreement shall constitute the Loan Agreement referenced therein).

“Secured Obligations” means, collectively, (a) the Obligations and (b) all existing or future payment and other obligations owing by any Credit Party under (i) any Secured Hedge Agreement and (ii) any Secured Cash Management Agreement; provided that the “Secured Obligations” of a Credit Party shall exclude any Excluded Swap Obligations with respect to such Credit Party.

“Secured Parties” means, collectively, the Administrative Agent, the Lenders, the Issuing Lenders, the Hedge Banks, the Cash Management Banks, each co-agent or sub-agent appointed by the Administrative Agent from time to time pursuant to Section 11.5, any other holder from time to time of any of any Secured Obligations and, in each case, their respective successors and permitted assigns.

“Securities Account Control Agreement” shall mean an agreement substantially in form and substance reasonably satisfactory to the Administrative Agent establishing the Administrative Agent’s “control” (as such term is defined in Section 9-104 of the UCC) with respect to, or otherwise perfecting (in any comparable manner as required under the laws of any applicable non-U.S. jurisdiction) the Administrative Agent’s Lien on, any securities account.

“Securities Act” means the Securities Act of 1933 (15 U.S.C. § 77 *et seq.*).

“Seventh Amendment” means the Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement dated as of the Seventh Amendment Effective Date.

“Seventh Amendment Effective Date” means April 29, 2024.

“Social Security Act” means the Social Security Act of 1965.

“SOFR” means a rate equal to the secured overnight financing rate as administered by the SOFR Administrator.

“SOFR Administrator” means the Federal Reserve Bank of New York (or a successor administrator of the secured overnight financing rate).

“Solvent” and “Solvency” mean, with respect to any Person on any date of determination, that on such date (a) the fair value of the property of such Person is greater than the total amount of liabilities, including contingent liabilities, of such Person, (b) the present fair salable value of the assets of such Person is not less than the amount that will be required to pay the probable liability of such Person on its debts as they become absolute and matured, (c) such Person does not intend to, and does not believe that it will, incur debts or liabilities beyond such Person’s ability to pay such debts and liabilities as they mature, (d) such Person is not engaged in business or a transaction, and is not about to engage in business or a transaction, for which such Person’s property would constitute an unreasonably small capital, and (e) such Person is able to pay its debts and liabilities, contingent obligations and other commitments as they mature in the ordinary course of business. The amount of contingent liabilities at any time shall be computed as the amount that, in the light of all the facts and circumstances existing at such time, represents the amount that can reasonably be expected to become an actual or matured liability.

“SONIA” means a rate equal to the Sterling Overnight Index Average as administered by the SONIA Administrator.

“SONIA Adjustment” means a percentage equal to 0.0326% per annum.

“SONIA Administrator” means the Bank of England (or any successor administrator of the Sterling Overnight Index Average).

“SONIA Administrator’s Website” means the Bank of England’s website, currently at <http://www.bankofengland.co.uk>, or any successor source for the Sterling Overnight Index Average identified as such by the SONIA Administrator from time to time.

“Special Notice Currency” means at any time an Alternative Currency or Alternative L/C Currency, other than the currency of a country that is a member of the Organization for Economic Cooperation and Development at such time located in North America.

“Specified Candidate Program” means each of the drug candidate programs identified on Schedule 1.1(d).

“Specified Disposition” means any Disposition having gross sales proceeds in excess of the Threshold Amount.

“Specified Representations” means the representations and warranties set forth in Section 7.1(a), Section 7.1(b)(ii) and Section 7.2(a) (in each case with respect to Sections 7.1(a), 7.1(b)(ii) and 7.2(a), relating to the entering into and performance of the Loan Documents and the incurrence of the Initial Term Loan), Section 7.4, Section 7.14, Section 7.18, Section 7.19 (as of the Closing Date and after giving effect to the Transactions) and Section 7.21.

“Specified Sale Transactions” has the meaning assigned to such term in the Seventh Amendment.

“Spot Rate” means, subject to Section 1.11, for a Currency, the rate provided (either by publication or otherwise provided or made available to the Administrative Agent or the applicable Issuing Lender (with notice to the Administrative Agent)) by Thomson Reuters Corp. (or equivalent service chosen by the Administrative Agent in its reasonable discretion) as the spot rate for the purchase of such Currency with another currency at a time selected by the Administrative Agent or the applicable Issuing Lender (with notice to the Administrative Agent) on the date of determination.

“Sterling” or “£” means the lawful currency of the United Kingdom.

“Subject Indebtedness” has the meaning assigned thereto in Section 9.14.

“Subordinated Indebtedness” means the collective reference to any Indebtedness incurred by the Borrower or any of its Subsidiaries that is contractually subordinated in right and time of payment to the Obligations on terms and conditions reasonably satisfactory to the Administrative Agent.

“Subsidiary” means as to any Person, any corporation, partnership, limited liability company or other entity of which more than fifty percent (50%) of the outstanding Equity Interests having ordinary voting power to elect a majority of the board of directors (or equivalent governing body) or other managers of such corporation, partnership, limited liability company or other entity is at the time owned by (directly or indirectly) or the management is otherwise controlled by (directly or indirectly) such Person (irrespective of whether, at the time, Equity Interests of any other class or classes of such corporation, partnership, limited liability company or other entity shall have or might have voting power

by reason of the happening of any contingency). Unless otherwise qualified, references to "Subsidiary" or "Subsidiaries" herein shall refer to those of the Borrower.

"Super Majority Required Lenders" means, at any time, Lenders having Total Credit Exposure representing more than 66.6% of the Total Credit Exposure of all Lenders. The Total Credit Exposure of any Defaulting Lender shall be disregarded in determining Super Majority Required Lenders at any time.

"Swap Obligation" means, with respect to any Guarantor, any obligation to pay or perform under any agreement, contract or transaction that constitutes a "swap" within the meaning of Section 1a(47) of the Commodity Exchange Act.

"Swap Termination Value" means, in respect of any one or more Secured Hedge Agreement, after taking into account the effect of any legally enforceable netting agreement relating to such Secured Hedge Agreements, (a) for any date on or after the date such Secured Hedge Agreements have been closed out and termination value(s) determined in accordance therewith, such termination value(s), and (b) for any date prior to the date referenced in clause (a), the amount(s) determined as the mark-to-market value(s) for such Secured Hedge Agreements, as determined based upon one or more mid-market or other readily available quotations provided by any recognized dealer in such Secured Hedge Agreements (which may include a Lender or any Affiliate of a Lender).

"Swingline Commitment" means the lesser of (a) \$15,000,000 and (b) the Revolving Credit Commitment.

"Swingline Facility" means the swingline facility established pursuant to Section 2.2.

"Swingline Lender" means Wells Fargo in its capacity as swingline lender hereunder or any successor thereto.

"Swingline Loan" means any swingline loan made by the Swingline Lender to the Borrower pursuant to Section 2.2, and all such swingline loans collectively as the context requires.

"Swingline Note" means a promissory note made by the Borrower in favor of the Swingline Lender evidencing the Swingline Loans made by the Swingline Lender, substantially in the form attached as Exhibit A-2, and any substitutes therefor, and any replacements, restatements, renewals or extension thereof, in whole or in part.

"Swingline Participation Amount" has the meaning assigned thereto in Section 2.2(b)(iii).

"Synthetic Debt" means, with respect to any Person as of any date of determination thereof, all obligations of such Person in respect of transactions entered into by such Person that are intended to function primarily as a borrowing of funds (including any minority interest transactions that function primarily as a borrowing) but are not otherwise included in the definition of "Indebtedness" or as a liability on the consolidated balance sheet of such Person and its Subsidiaries in accordance with GAAP.

"Synthetic Lease Obligation" means the monetary obligation of a Person under (a) a so-called synthetic, off-balance sheet or tax retention lease, or (b) an agreement for the use or possession of property (including sale and leaseback transactions), in each case, creating obligations that do not appear on the balance sheet of such Person but which, upon the insolvency or bankruptcy of such Person, would be characterized as the indebtedness of such Person (without regard to accounting treatment).

“T2” means the real time gross settlement system operated by the Eurosystem, or any successor system.

“TARGET Day” means any day on which T2 is open for the settlement of payments in Euros.

“Taxes” means all present or future taxes, levies, imposts, duties, deductions, withholdings (including backup withholding), assessments, fees or other charges imposed by any Governmental Authority, including any interest, fines, additions to tax or penalties applicable thereto.

“Term CORRA” means, for any calculation with respect to a Term CORRA Loan, the Term CORRA Reference Rate for a tenor comparable to the applicable Interest Period on the day (such day, the “Periodic Term CORRA Determination Day”) that is two (2) RFR Business Days prior to the first day of such Interest Period, as such rate is published by the Term CORRA Administrator; provided, however, that if as of 5:00 p.m. (Toronto time) on any Periodic Term CORRA Determination Date the Term CORRA Reference Rate for the applicable tenor has not been published by the Term CORRA Administrator and a Benchmark Replacement Date with respect to the Term CORRA Reference Rate has not occurred, then Term CORRA will be the Term CORRA Reference Rate for such tenor as published by the Term CORRA Administrator on the first preceding RFR Business Day for which such Term CORRA Reference Rate for such tenor was published by the Term CORRA Administrator so long as such first preceding RFR Business Day is not more than three (3) RFR Business Days prior to such Periodic Term CORRA Determination Date.

“Term CORRA Adjustment” means with respect to any Term CORRA Loan, a percentage per annum as set forth below for the applicable Interest Period therefor:

Interest Period	Percentage
One month	0.29547%
Three months	0.32138%

“Term CORRA Administrator” means CanDeal Benchmark Administration Services Inc. (“CanDeal”) or, in the reasonable discretion of the Administrative Agent, TSX Inc. or an affiliate of TSX Inc. as the publication source of the CanDeal/TMX Term CORRA benchmark that is administered by CanDeal (or a successor administrator of the Term CORRA Reference Rate selected by the Administrative Agent in its reasonable discretion).

“Term CORRA Loan” means a Loan that bears interest at a rate based on Adjusted Term CORRA.

“Term CORRA Reference Rate” means the forward-looking term rate based on CORRA.

“Term Loan Commitment” means (a) as to any Term Loan Lender, the obligation of such Term Loan Lender to make a portion of the Initial Term Loan to the account of the Borrower hereunder on the Closing Date in an aggregate principal amount not to exceed the amount set forth opposite such Lender’s name on Schedule 1.1(c), as such amount may be increased, reduced or otherwise modified at any time or from time to time pursuant to the terms hereof and (b) as to all Term Loan Lenders, the aggregate commitment of all Term Loan Lenders to make such Term Loans. The aggregate Term Loan Commitment with respect to the Initial Term Loan of all Term Loan Lenders on the Closing Date shall be \$450,000,000. The Term Loan Commitment of each Term Loan Lender as of the Closing Date is set forth opposite the name of such Term Loan Lender on Schedule 1.1(c).

“Term Loan Facility” means the term loan facility established pursuant to Article IV.

“Term Loan Lender” means any Lender with a Term Loan Commitment and/or outstanding Term Loans.

“Term Loan Maturity Date” means the first to occur of (a) May 15, 2025, and (b) the date of acceleration of the Term Loans pursuant to Section 10.2(a).

“Term Loan Note” means a promissory note made by the Borrower in favor of a Term Loan Lender evidencing the portion of the Term Loans made by such Term Loan Lender, substantially in the form attached as Exhibit A-3, and any substitutes therefor, and any replacements, restatements, renewals or extension thereof, in whole or in part.

“Term Loan Percentage” means, with respect to any Term Loan Lender at any time, the percentage of the total outstanding principal balance of the Term Loans represented by the outstanding principal balance of such Term Loan Lender’s Term Loans. The Term Loan Percentage of each Term Loan Lender as of the Closing Date is set forth opposite the name of such Lender on Schedule 1.1(c).

“Term Loans” means the Initial Term Loans and “Term Loan” means any of such Term Loans.

“Term SOFR” means,

(a) for any calculation with respect to a Term SOFR Loan, the Term SOFR Reference Rate for a tenor comparable to the applicable Interest Period on the day (such day, the “Periodic Term SOFR Determination Day”) that is two (2) RFR Business Days prior to the first day of such Interest Period, as such rate is published by the Term SOFR Administrator; provided, however, that if as of 5:00 p.m. (Eastern time) on any Periodic Term SOFR Determination Day the Term SOFR Reference Rate for the applicable tenor has not been published by the Term SOFR Administrator and a Benchmark Replacement Date with respect to the Term SOFR Reference Rate has not occurred, then Term SOFR will be the Term SOFR Reference Rate for such tenor as published by the Term SOFR Administrator on the first preceding RFR Business Day for which such Term SOFR Reference Rate for such tenor was published by the Term SOFR Administrator so long as such first preceding RFR Business Day is not more than three (3) RFR Business Days prior to such Periodic Term SOFR Determination Day, and

(b) for any calculation with respect to a Base Rate Loan on any day, the Term SOFR Reference Rate for a tenor of one month on the day (such day, the “Base Rate Term SOFR Determination Day”) that is two (2) RFR Business Days prior to such day, as such rate is published by the Term SOFR Administrator; provided, however, that if as of 5:00 p.m. (Eastern time) on any Base Rate Term SOFR Determination Day the Term SOFR Reference Rate for the applicable tenor has not been published by the Term SOFR Administrator and a Benchmark Replacement Date with respect to the Term SOFR Reference Rate has not occurred, then Term SOFR will be the Term SOFR Reference Rate for such tenor as published by the Term SOFR Administrator on the first preceding RFR Business Day for which such Term SOFR Reference Rate for such tenor was published by the Term SOFR Administrator so long as such first preceding RFR Business Day is not more than three (3) RFR Business Days prior to such Base Rate Term SOFR Determination Day; provided, further, that if Term SOFR determined as provided above (including pursuant to the proviso under clause (a) or clause (b) above) shall ever be less than the Floor, then Term SOFR shall be deemed to be the Floor.

“Term SOFR Adjustment” means a percentage equal to 0.10% per annum.

“Term SOFR Administrator” means CME Group Benchmark Administration Limited (CBA) (or a successor administrator of the Term SOFR Reference Rate selected by the Administrative Agent in its reasonable discretion).

“Term SOFR Loan” means any Loan that bears interest at a rate based on Adjusted Term SOFR other than pursuant to clause (c) of the definition of “Base Rate”.

“Term SOFR Reference Rate” means the forward-looking term rate based on SOFR.

“Third Amendment” means the Consent, Limited Waiver and Third Amendment to Amended and Restated Credit Agreement dated as of the Third Amendment Effective Date.

“Third Amendment Effective Date” means February 14, 2023.

“Threshold Amount” means \$25,000,000.

“Total Credit Exposure” means, as to any Lender at any time, the unused Commitments, Revolving Credit Exposure and outstanding Term Loans of such Lender at such time.

“Transactions” means, collectively, (a) the refinancing of certain indebtedness of the Borrower and its Subsidiaries, including Indebtedness under the Existing Credit Agreement, (b) the initial Extensions of Credit, and (c) the payment of fees, commissions, transaction costs and expenses incurred in connection with each of the foregoing.

“TSA” means (i) that certain Transition Services Agreement, dated as of May 15, 2023, by and among BAVARIAN NORDIC A/S, a private limited liability company organized under the laws of Denmark, EMERGENT INTERNATIONAL INC., a Delaware corporation, and EMERGENT TRAVEL HEALTH INC., a Delaware corporation and (ii) any other transition services agreement executed in connect with a Specified Sale Transaction, provided that the term of any transition services agreement described in this clause (ii) shall not exceed twelve (12) months.

“UCC” means the Uniform Commercial Code as in effect in the State of New York.

“UCP” means the Uniform Customs and Practice for Documentary Credits, International Chamber of Commerce Publication No. 600 (or such later version thereof as may be in effect at the applicable time).

“UK Financial Institution” means any BRRD Undertaking (as such term is defined under the PRA Rulebook (as amended from time to time) promulgated by the United Kingdom Prudential Regulation Authority) or any person falling within IFPRU 11.6 of the FCA Handbook (as amended from time to time) promulgated by the United Kingdom Financial Conduct Authority, which includes certain credit institutions and investment firms, and certain affiliates of such credit institutions or investment firms.

“UK Resolution Authority” means the Bank of England or any other public administrative authority having responsibility for the resolution of any UK Financial Institution.

“Unadjusted Benchmark Replacement” means the applicable Benchmark Replacement excluding the related Benchmark Replacement Adjustment.

“Uninsured Liabilities” shall mean any losses, damages, costs, expenses and/or, liabilities (including any losses, damages, costs, expenses or liabilities resulting from property damage or casualty,

general liability, workers' compensation claims and business interruption) incurred by the Borrower or any Subsidiary which are not covered by insurance, but with respect to which insurance coverage is commercially available in the ordinary course of business to Persons engaged in the same or similar business as the Borrower and its Subsidiaries.

“United States” means the United States of America.

“Unrestricted Cash and Cash Equivalents” means, as of any date of determination, the sum of (a) 100% of all cash and Cash Equivalents held by the Borrower and its Subsidiaries in deposit accounts or securities accounts located within the United States and (b) 100% of all cash and Cash Equivalents held by the Borrower and its Subsidiaries in deposit accounts or securities accounts located outside of the United States, in each case that are unrestricted and not subject to any Lien (other than a Lien in favor of the Administrative Agent or a Lien permitted under Section 9.1(l)).

“U.S. Person” means any Person that is a “United States person” as defined in Section 7701(a)(30) of the Code.

“U.S. Tax Compliance Certificate” has the meaning assigned thereto in Section 5.11(g).

“Wells Fargo” means Wells Fargo Bank, National Association, a national banking association.

“Wholly-Owned” means, with respect to a Subsidiary, that all of the Equity Interests of such Subsidiary are, directly or indirectly, owned or controlled by the Borrower and/or one or more of its Wholly-Owned Subsidiaries (except for directors' qualifying shares or other shares required by Applicable Law to be owned by a Person other than the Borrower and/or one or more of its Wholly-Owned Subsidiaries).

“Withholding Agent” means the Borrower and the Administrative Agent.

“Write-Down and Conversion Powers” means (a) with respect to any EEA Resolution Authority, the write-down and conversion powers of such EEA Resolution Authority from time to time under the Bail-In Legislation for the applicable EEA Member Country, which write-down and conversion powers are described in the EU Bail-In Legislation Schedule and (b) with respect to the United Kingdom, any powers of the applicable Resolution Authority under the Bail-In Legislation to cancel, reduce, modify or change the form of a liability of any UK Financial Institution or any contract or instrument under which that liability arises, to convert all or part of that liability into shares, securities or obligations of that person or any other person, to provide that any such contract or instrument is to have effect as if a right had been exercised under it or to suspend any obligation in respect of that liability or any of the powers under that Bail-In Legislation that are related to or ancillary to any of those powers.

SECTION 1.2 Other Definitions and Provisions. With reference to this Agreement and each other Loan Document, unless otherwise specified herein or in such other Loan Document: (a) the definitions of terms herein shall apply equally to the singular and plural forms of the terms defined, (b) whenever the context may require, any pronoun shall include the corresponding masculine, feminine and neuter forms, (c) the words “include”, “includes” and “including” shall be deemed to be followed by the phrase “without limitation”, (d) the word “will” shall be construed to have the same meaning and effect as the word “shall”, (e) any reference herein to any Person shall be construed to include such Person's successors and assigns, (f) the words “herein”, “hereof” and “hereunder”, and words of similar import, shall be construed to refer to this Agreement in its entirety and not to any particular provision hereof, (g) all references herein to Articles, Sections, Exhibits and Schedules shall be construed to refer to Articles and Sections of, and Exhibits and Schedules to, this Agreement, (h) the words “asset” and

“property” shall be construed to have the same meaning and effect and to refer to any and all tangible and intangible assets and properties, including cash, securities, accounts and contract rights, (i) the term “documents” includes any and all instruments, documents, agreements, certificates, notices, reports, financial statements and other writings, however evidenced, whether in physical or electronic form and (j) in the computation of periods of time from a specified date to a later specified date, the word “from” means “from and including;” the words “to” and “until” each mean “to but excluding;” and the word “through” means “to and including”.

SECTION 1.3 Accounting Terms.

(a) All accounting terms not specifically or completely defined herein shall be construed in conformity with, and all financial data (including financial ratios and other financial calculations) required to be submitted pursuant to this Agreement shall be prepared in conformity with GAAP, applied on a consistent basis, as in effect from time to time and in a manner consistent with that used in preparing the audited financial statements required by Section 8.1(a), except as otherwise specifically prescribed herein. Notwithstanding the foregoing, for purposes of determining compliance with any covenant (including the computation of any financial covenant) contained herein, Indebtedness of the Borrower and its Subsidiaries shall be deemed to be carried at 100% of the outstanding principal amount thereof, and the effects of FASB ASC 825 and FASB ASC 470-20 on financial liabilities shall be disregarded.

(b) If at any time any change in GAAP (including the adoption of IFRS) would affect the computation of any financial ratio or requirement set forth in any Loan Document, and either the Borrower or the Required Lenders shall so request, the Administrative Agent, the Lenders and the Borrower shall negotiate in good faith to amend such ratio or requirement to preserve the original intent thereof in light of such change in GAAP (subject to the approval of the Required Lenders); provided that, until so amended, (i) such ratio or requirement shall continue to be computed in accordance with GAAP prior to such change therein and (ii) the Borrower shall provide to the Administrative Agent and the Lenders financial statements and other documents required under this Agreement or as reasonably requested hereunder setting forth a reconciliation between calculations of such ratio or requirement made before and after giving effect to such change in GAAP; provided, further that (A) all obligations of any Person that are or would have been treated as operating leases for purposes of GAAP prior to the effectiveness of FASB ASC 842 shall continue to be accounted for as operating leases for purposes of all financial definitions and calculations for purpose of this Agreement (whether or not such operating lease obligations were in effect on such date) notwithstanding the fact that such obligations are required in accordance with FASB ASC 842 (on a prospective or retroactive basis or otherwise) to be treated as Capitalized Leases in the financial statements and (B) all financial statements delivered to the Administrative Agent hereunder shall contain a schedule showing the modifications necessary to reconcile the adjustments made pursuant to clause (A) above with such financial statements.

(c) Consolidation of Variable Interest Entities. All references herein to Consolidated financial statements of the Borrower and its Subsidiaries or to the determination of any amount for the Borrower and its Subsidiaries on a Consolidated basis or any similar reference shall, in each case, be deemed to include each variable interest entity that the Borrower is required to consolidate pursuant to FASB ASC 810 as if such variable interest entity were a Subsidiary as defined herein.

SECTION 1.4 UCC Terms. Terms defined in the UCC in effect on the Closing Date and not otherwise defined herein shall, unless the context otherwise indicates, have the meanings provided by those definitions. Subject to the foregoing, the term “UCC” refers, as of any date of determination, to the UCC then in effect.

SECTION 1.5 Rounding. Any financial ratios required to be maintained pursuant to this Agreement shall be calculated by dividing the appropriate component by the other component, carrying the result to one place more than the number of places by which such ratio or percentage is expressed herein and rounding the result up or down to the nearest number (with a rounding-up if there is no nearest number).

SECTION 1.6 References to Agreement and Laws. Unless otherwise expressly provided herein, (a) any definition or reference to formation documents, governing documents, agreements (including the Loan Documents) and other contractual documents or instruments shall be deemed to include all subsequent amendments, restatements, extensions, supplements and other modifications thereto, but only to the extent that such amendments, restatements, extensions, supplements and other modifications are not prohibited by any Loan Document; and (b) any definition or reference to any Applicable Law, including, without limitation, Anti-Corruption Laws, Anti-Money Laundering Laws, the Bankruptcy Code, the Code, the Commodity Exchange Act, ERISA, the Exchange Act, the PATRIOT Act, the Securities Act, the UCC, the Investment Company Act, the Trading with the Enemy Act of the United States or any of the foreign assets control regulations of the United States Treasury Department, shall include all statutory and regulatory provisions consolidating, amending, replacing, supplementing or interpreting such Applicable Law.

SECTION 1.7 Times of Day. Unless otherwise specified, all references herein to times of day shall be references to Eastern time (daylight or standard, as applicable).

SECTION 1.8 Letter of Credit Amounts. Unless otherwise specified, all references herein to the amount of a Letter of Credit at any time shall be deemed to mean the maximum face amount, or the Dollar Equivalent of the maximum face amount, if applicable, of such Letter of Credit after giving effect to all increases thereof contemplated by such Letter of Credit or the Letter of Credit Documents therefor (at the time specified therefor in such applicable Letter of Credit or Letter of Credit Documents and as such amount may be reduced by (a) any permanent reduction of such Letter of Credit or (b) any amount which is drawn, reimbursed and no longer available under such Letter of Credit).

SECTION 1.9 Guarantees/Earn Outs. Unless otherwise specified, (a) the amount of any Guarantee shall be the lesser of the amount of the obligations guaranteed and still outstanding and the maximum amount for which the guaranteee Person may be liable pursuant to the terms of the instrument embodying such Guarantee and (b) the amount of any earn-out or similar obligation shall be the amount of such obligation as reflected on the balance sheet of such Person in accordance with GAAP.

SECTION 1.10 Covenant Compliance Generally. For purposes of determining compliance under Sections 9.1, 9.2, 9.3, 9.5 and 9.6, any amount in a currency other than Dollars will be converted to Dollars in a manner consistent with that used in calculating Consolidated Net Income in the most recent annual financial statements of the Borrower and its Subsidiaries delivered pursuant to Section 8.1(a). Notwithstanding the foregoing, for purposes of determining compliance with Sections 9.1, 9.2 and 9.3, with respect to any amount of Indebtedness or Investment in a currency other than Dollars, no breach of any basket contained in such Sections shall be deemed to have occurred solely as a result of changes in rates of exchange occurring after the time such Indebtedness or Investment is incurred; provided that for the avoidance of doubt, the foregoing provisions of this Section 1.10 shall otherwise apply to such Sections, including with respect to determining whether any Indebtedness or Investment may be incurred at any time under such Sections.

SECTION 1.11 Exchange Rates; Currency Equivalents; Daily Simple SONIA Loans.

(a) The Administrative Agent or the applicable Issuing Lender (with notice thereof to the Administrative Agent), as applicable, shall determine the Dollar Equivalent amounts of Extensions of Credit denominated in Alternative Currencies or Alternative L/C Currencies, as applicable. Such Dollar Equivalent shall become effective as of such Revaluation Date and shall be the Dollar Equivalent of such amounts until the next Revaluation Date to occur. Except for purposes of financial statements delivered by the Borrower hereunder or calculating financial covenants hereunder or except as otherwise provided herein, the applicable amount of any Currency (other than Dollars) for purposes of the Loan Documents shall be such Dollar Equivalent amount as so determined by the Administrative Agent or the applicable Issuing Lender (with notice thereof to the Administrative Agent), as applicable.

(b) Wherever in this Agreement in connection with a borrowing, conversion, continuation or prepayment of an RFR Loan or a Eurocurrency Rate Loan or the issuance, amendment or extension of a Letter of Credit, an amount, such as a required minimum, a required maximum or multiple amount, is expressed in Dollars, but such RFR Loan, Eurocurrency Rate Loan or Letter of Credit is denominated in an Alternative Currency or an Alternative L/C Currency, such amount shall be the relevant Alternative Currency Equivalent of such Dollar amount (rounded to the nearest unit of such Alternative Currency or an Alternative L/C Currency, with 0.5 of a unit being rounded upward), as determined by the Administrative Agent or the applicable Issuing Lender, as applicable.

(c) Notwithstanding the foregoing provisions of this Section 1.11 or any other provision of this Agreement, in connection with Daily Simple SONIA Loans, the Spot Rate on each date of borrowing shall be the Spot Rate in effect as of the Revaluation Date applicable to the first borrowing of any such Daily Simple SONIA Loans (or, if applicable, any later Revaluation Date pursuant to clause (a)(iii) of the definition of "Revaluation Date").

(d) Notwithstanding the foregoing provisions of this Section 1.11 or any other provision of this Agreement, each Issuing Lender may compute the Dollar Equivalent of the maximum amount of each applicable Letter of Credit issued by such Issuing Lender by reference to exchange rates determined using any reasonable method customarily employed by such Issuing Lender for such purpose.

SECTION 1.12 Change of Currency.

(a) The obligation of the Borrower to make a payment denominated in the national currency unit of any member state of the European Union that adopts the Euro as its lawful currency after the date hereof shall be redenominated into Euro at the time of such adoption (in accordance with the EMU Legislation). If, in relation to the currency of any such member state, the basis of accrual of interest expressed in this Agreement in respect of that currency shall be inconsistent with any convention or practice in the London or applicable offshore interbank market for the basis of accrual of interest in respect of the Euro, such expressed basis shall be replaced by such convention or practice with effect from the date on which such member state adopts the Euro as its lawful currency; provided that if any borrowing in the currency of such member state is outstanding immediately prior to such date, such replacement shall take effect, with respect to such borrowing, at the end of the then current Interest Period.

(b) Each provision of this Agreement shall be subject to such reasonable changes of construction as the Administrative Agent may from time to time specify to be appropriate to reflect the adoption of the Euro by any member state of the European Union and any relevant market conventions or practices relating to the Euro.

(c) Each provision of this Agreement also shall be subject to such reasonable changes of construction as the Administrative Agent may from time to time specify to be appropriate to reflect a

change in currency of any other country and any relevant market conventions or practices relating to the change in currency.

SECTION 1.13 Additional Alternative Currencies.

(a) The Borrower may from time to time request that (i) Revolving Credit Loans be made in a currency other than those specifically listed in the definition of "Alternative Currency" and/or (ii) Letters of Credit be issued in a currency other than those specifically listed in the definition of "Alternative L/C Currency"; provided that such requested currency is (A) a lawful currency (other than Dollars) that is readily available and freely transferable and convertible into Dollars (B) dealt with in the London or other applicable offshore interbank deposit market and (C) for which no central bank or other governmental authorization in the country of issue of such currency is required to give authorization for the use of such currency by any Lender for making Revolving Credit Loans or any Issuing Lender for issuing Letters of Credit, as applicable, unless such authorization has been obtained and remains in full force and effect. In the case of any such request with respect to the making of Revolving Credit Loans, such request shall be subject to the approval of the Administrative Agent and the Revolving Credit Lenders; and in the case of any such request with respect to the issuance of Letters of Credit, such request shall be subject to the approval of the Administrative Agent, the Revolving Credit Lenders and the applicable Issuing Lender or Issuing Lenders.

(b) Any such request shall be made to the Administrative Agent not later than 11:00 a.m., (i) with respect to a request for an additional Alternative Currency, 20 Business Days prior to the date of the desired Extension of Credit (or such other time or date as may be agreed by the Administrative Agent in its sole discretion) or (ii) with respect to a request for an additional Alternative L/C Currency, 5 Business Days prior to the date of the desired Letter of Credit (or such other time or date as may be agreed by the applicable Issuing Lender(s), in its (their) sole discretion, with notice to the Administrative Agent). Each such request shall also identify the applicable benchmark rate that is to apply to Obligations, interest, fees, commissions or other amounts denominated in, or calculated with respect to, such requested additional Alternative Currency. In the case of any such request pertaining to Revolving Credit Loans, the Administrative Agent shall promptly notify each Revolving Credit Lender thereof; and in the case of any such request pertaining to Letters of Credit, the Administrative Agent shall promptly notify the applicable Issuing Lender(s) thereof. Each Revolving Credit Lender (in the case of any such request pertaining to Revolving Credit Loans) shall notify the Administrative Agent, not later than 11:00 a.m., ten Business Days after receipt of such request whether it consents, in its sole discretion, to the making of Revolving Credit Loans in such requested currency and the usage of such benchmark rate. The applicable Issuing Lender(s) (in the case of a request pertaining to Letters of Credit) shall notify the Administrative Agent, not later than 11:00 a.m., three Business Days after receipt of such request whether it consents, in its sole discretion, to the issuance of Letters of Credit in such requested currency and the usage of such benchmark rate.

(c) Any failure by a Revolving Credit Lender or the applicable Issuing Lender(s), as the case may be, to respond to such request within the time period specified in the preceding sentence shall be deemed to be a refusal by such Lender or the applicable Issuing Lender(s), as the case may be, to permit Revolving Credit Loans to be made or Letters of Credit to be issued in such requested currency and such benchmark rate to be used. If the Administrative Agent and all the Revolving Credit Lenders consent to making Revolving Credit Loans in such requested currency and using such benchmark rate, the Administrative Agent shall so notify the Borrower and such currency shall thereupon be deemed for all purposes to be an Alternative Currency hereunder for purposes of any borrowings of Revolving Credit Loans; and if the Administrative Agent, all the Revolving Credit Lenders and the applicable Issuing Lender(s) consent to the issuance of Letters of Credit in such requested currency, the Administrative Agent shall so notify the Borrower and such currency shall thereupon be deemed for all purposes to be an

Alternative L/C Currency hereunder for purposes of any Letter of Credit issuances by such Issuing Lender(s). If the Administrative Agent shall fail to obtain consent to any request for an additional currency under this Section 1.13, the Administrative Agent shall promptly so notify the Borrower. Any specified currency of an Existing Letter of Credit that is neither Dollars nor one of the Alternative L/C Currencies specifically listed in the definition of "Alternative L/C Currency" shall be deemed an Alternative L/C Currency with respect to such Existing Letter of Credit only.

(d) In connection with any approved request for an Alternative Currency or an Alternative L/C Currency, the Administrative Agent will have the right to make any technical, administrative or operational changes that the Administrative Agent decides may be appropriate to reflect the inclusion of such Alternative Currency or such Alternative L/C Currency, as applicable, and the adoption and implementation of the benchmark rate applicable thereto and to permit the administration thereof by the Administrative Agent from time to time and, notwithstanding anything to the contrary herein or in any other Loan Document, any amendments implementing such changes will become effective without any further action or consent of any other party to this Agreement or any other Loan Document.

SECTION 1.14 Limited Condition Acquisitions. In the event that the Borrower notifies the Administrative Agent in writing that any proposed Acquisition is a Limited Condition Acquisition and that the Borrower wishes to test the conditions to such Acquisition and the incurrence and availability of the Indebtedness (other than a Revolving Credit Loan, Swingline Loan or Letter of Credit) that is to be used to finance such Acquisition in accordance with this Section, then the following provisions shall apply notwithstanding anything to the contrary in this Agreement or any other Loan Documents:

(a) any condition to such Acquisition or the incurrence or availability of such Indebtedness that requires that no Default or Event of Default shall have occurred and be continuing at the time of such Acquisition or the incurrence or initial availability of such Indebtedness, shall be satisfied if (i) no Default or Event of Default shall have occurred and be continuing at the time of the execution of the definitive purchase agreement, merger agreement or other acquisition agreement governing such Acquisition and (ii) no Event of Default under any of Sections 10.1(a) or 10.1(f) shall have occurred and be continuing both before and after giving effect to such Acquisition and any Indebtedness incurred in connection therewith (including such additional Indebtedness);

(b) [reserved];

(c) any financial ratio test or condition, may upon the written election of the Borrower delivered to the Administrative Agent prior to the execution of the definitive agreement for such Acquisition, be tested either (i) upon the execution of the definitive agreement with respect to such Limited Condition Acquisition or (ii) upon the consummation of the Limited Condition Acquisition and related incurrence of Indebtedness, in each case, after giving effect to the relevant Limited Condition Acquisition and related incurrence of Indebtedness, on a pro forma basis; provided that the failure to deliver a notice under this Section 1.14(c) prior to the date of execution of the definitive agreement for such Limited Condition Acquisition shall be deemed an election to test the applicable financial ratio under subclause (ii) of this Section 1.14(c); and

(d) if the Borrower has made an election with respect to any Limited Condition Acquisition to test a financial ratio test or condition at the time specified in clause (c)(i) of this Section, then, except as provided in the next sentence, in connection with any subsequent calculation of any ratio or basket on or following the relevant date of execution of the definitive agreement with respect to such Limited Condition Acquisition and prior to the earlier of (i) the date on which such Limited Condition Acquisition is consummated or (ii) the date that the definitive agreement for such Limited Condition Acquisition is terminated or expires without consummation of such Limited Condition Acquisition, any

such ratio or basket shall be required to be satisfied (x) on a pro forma basis assuming such Limited Condition Acquisition and other transactions in connection therewith (including the incurrence or assumption of Indebtedness) have been consummated and (y) assuming such Limited Condition Acquisition and other transactions in connection therewith (including the incurrence or assumption of Indebtedness) have not been consummated. Notwithstanding the foregoing, any calculation of a ratio in connection with determining the Applicable Margin and determining whether or not the Borrower is in compliance with the requirements of Section 9.11 shall, in each case be calculated assuming such Limited Condition Acquisition and other transactions in connection therewith (including the incurrence or assumption of Indebtedness) have not been consummated.

The foregoing provisions shall apply with similar effect during the pendency of multiple Limited Condition Acquisitions such that each of the possible scenarios is separately tested.

SECTION 1.15 Rates. The Administrative Agent does not warrant or accept any responsibility for, and shall not have any liability with respect to, (a) the continuation of, administration of, submission of, calculation of or any other matter related to the Term SOFR Reference Rate, Adjusted Term SOFR, Term SOFR, the Term CORRA Reference Rate, Adjusted Term CORRA, Term CORRA, Adjusted Daily Simple SONIA, Daily Simple SONIA, the Eurocurrency Rate, the Adjusted Eurocurrency Rate or any other Benchmark, or any component definition thereof or rates referred to in the definition thereof, or with respect to any alternative, successor or replacement rate thereto (including any Benchmark Replacement), including whether the composition or characteristics of any such alternative, successor or replacement rate (including any Benchmark Replacement), as it may or may not be adjusted pursuant to Section 5.8(c), will be similar to, or produce the same value or economic equivalence of, or have the same volume or liquidity as, the Term SOFR Reference Rate, Term SOFR, Adjusted Term SOFR, the Term SOFR CORRA Reference Rate, Adjusted Term CORRA, Term CORRA, Adjusted Daily Simple SONIA, Daily Simple SONIA, the Eurocurrency Rate, the Adjusted Eurocurrency Rate, such Benchmark or any other Benchmark prior to its discontinuance or unavailability, or (b) the effect, implementation or composition of any Conforming Changes. The Administrative Agent and its Affiliates or other related entities may engage in transactions that affect the calculation of a Benchmark, any alternative, successor or replacement rate (including any Benchmark Replacement) or any relevant adjustments thereto and such transactions may be adverse to the Borrower. The Administrative Agent may select information sources or services in its reasonable discretion to ascertain any Benchmark, any component definition thereof or rates referred to in the definition thereof, in each case pursuant to the terms of this Agreement, and shall have no liability to the Borrower, any Lender or any other person or entity for damages of any kind, including direct or indirect, special, punitive, incidental or consequential damages, costs, losses or expenses (whether in tort, contract or otherwise and whether at law or in equity), for any error or calculation of any such rate (or component thereof) provided by any such information source or service.

SECTION 1.16 Divisions. For all purposes under the Loan Documents, in connection with any division or plan of division under Delaware law (or any comparable event under a different jurisdiction's laws): (a) if any asset, right, obligation or liability of any Person becomes the asset, right, obligation or liability of a different Person, then it shall be deemed to have been transferred from the original Person to the subsequent Person, and (b) if any new Person comes into existence, such new Person shall be deemed to have been organized on the first date of its existence by the holders of its Equity Interests at such time.

ARTICLE II

REVOLVING CREDIT FACILITY

SECTION 2.1 Revolving Credit Loans. Subject to the terms and conditions of this Agreement, each Revolving Credit Lender severally agrees to make Revolving Credit Loans to the Borrower in Dollars or one or more Alternative Currencies from time to time from the Closing Date to, but not including, the Revolving Credit Maturity Date as requested by the Borrower in accordance with the terms of Section 2.3; provided, that (a) the Revolving Credit Outstandings shall not exceed the Revolving Credit Commitment³ less the Reserve, (b) the Revolving Credit Exposure of any Revolving Credit Lender shall not at any time exceed such Revolving Credit Lender's Revolving Credit Commitment less such Revolving Credit Lender's pro rata portion of the Reserve and (c) the aggregate principal amount of all outstanding Revolving Credit Loans denominated in Alternative Currencies and Letters of Credit denominated in Alternative L/C Currencies shall not exceed the Alternative Currency Sublimit. Each Revolving Credit Loan by a Revolving Credit Lender shall be in a principal amount equal to such Revolving Credit Lender's Revolving Credit Commitment Percentage of the aggregate principal amount of Revolving Credit Loans requested on such occasion. Subject to the terms and conditions hereof, the Borrower may borrow, repay and reborrow Revolving Credit Loans hereunder until the Revolving Credit Maturity Date.

SECTION 2.2 Swingline Loans.

(a) Availability. Subject to the terms and conditions of this Agreement, including, without limitation, Section 6.2 of this Agreement, the Swingline Lender may, in its sole discretion, make Swingline Loans in Dollars to the Borrower from time to time from the Closing Date to, but not including, the Revolving Credit Maturity Date; provided, that (i) after giving effect to any amount requested, the Revolving Credit Outstandings shall not exceed the Revolving Credit Commitment and (ii) the aggregate principal amount of all outstanding Swingline Loans (after giving effect to any amount requested) shall not exceed the Swingline Commitment.

(b) Refunding.

(i) The Swingline Lender, at any time and from time to time in its sole and absolute discretion may, on behalf of the Borrower (which hereby irrevocably directs the Swingline Lender to act on its behalf), by written notice given no later than 11:00 a.m. on any Business Day request each Revolving Credit Lender to make, and each Revolving Credit Lender hereby agrees to make, a Revolving Credit Loan in Dollars as a Base Rate Loan or a Term CORRA Loan with a one-month Interest Period, as applicable, in an amount equal to such Revolving Credit Lender's Revolving Credit Commitment Percentage of the aggregate amount of the Swingline Loans outstanding on the date of such notice, to repay the Swingline Lender. Each Revolving Credit Lender shall make the amount of such Revolving Credit Loan available to the Administrative Agent in immediately available funds at the Administrative Agent's Office not later than 1:00 p.m. on the day specified in such notice. The proceeds of such Revolving Credit Loans shall be immediately made available by the Administrative Agent to the Swingline Lender for application by the Swingline Lender to the repayment of the Swingline Loans. No Revolving Credit Lender's obligation to fund its respective Revolving Credit Commitment Percentage of a Swingline Loan shall be affected by any other Revolving Credit Lender's failure to fund its Revolving Credit Commitment Percentage of a Swingline Loan, nor shall any Revolving Credit Lender's Revolving Credit Commitment Percentage be increased as a result of any such failure of any other Revolving Credit Lender to fund its Revolving Credit Commitment Percentage of a Swingline Loan.

³ Note: During the Forbearance Period, the Revolving Credit Outstandings, in the aggregate, shall not exceed \$270,000,000, until and unless consented to in writing by Required Revolving Credit Lenders.

(ii) The Borrower shall pay to the Swingline Lender on demand, and in any event on the Revolving Credit Maturity Date, in Same Day Funds the amount of such Swingline Loans to the extent amounts received from the Revolving Credit Lenders are not sufficient to repay in full the outstanding Swingline Loans requested or required to be refunded. In addition, the Borrower irrevocably authorizes the Administrative Agent to charge any account maintained by the Borrower with the Swingline Lender (up to the amount available therein) in order to immediately pay the Swingline Lender the amount of such Swingline Loans to the extent amounts received from the Revolving Credit Lenders are not sufficient to repay in full the outstanding Swingline Loans requested or required to be refunded. If any portion of any such amount paid to the Swingline Lender shall be recovered by or on behalf of the Borrower from the Swingline Lender in bankruptcy or otherwise, the loss of the amount so recovered shall be ratably shared among all the Revolving Credit Lenders in accordance with their respective Revolving Credit Commitment Percentages.

(iii) If for any reason any Swingline Loan cannot be refinanced with a Revolving Credit Loan pursuant to Section 2.2(b)(i), each Revolving Credit Lender shall, on the date such Revolving Credit Loan was to have been made pursuant to the notice referred to in Section 2.2(b)(i), purchase for cash an undivided participating interest in the then outstanding Swingline Loans by paying to the Swingline Lender an amount (the "Swingline Participation Amount") equal to such Revolving Credit Lender's Revolving Credit Commitment Percentage of the aggregate principal amount of Swingline Loans then outstanding. Each Revolving Credit Lender will immediately transfer to the Swingline Lender, in Same Day Funds, the amount of its Swingline Participation Amount. Whenever, at any time after the Swingline Lender has received from any Revolving Credit Lender such Revolving Credit Lender's Swingline Participation Amount, the Swingline Lender receives any payment on account of the Swingline Loans, the Swingline Lender will distribute to such Revolving Credit Lender its Swingline Participation Amount (appropriately adjusted, in the case of interest payments, to reflect the period of time during which such Lender's participating interest was outstanding and funded and, in the case of principal and interest payments, to reflect such Revolving Credit Lender's pro rata portion of such payment if such payment is not sufficient to pay the principal of and interest on all Swingline Loans then due); provided that in the event that such payment received by the Swingline Lender is required to be returned, such Revolving Credit Lender will return to the Swingline Lender any portion thereof previously distributed to it by the Swingline Lender.

(iv) Each Revolving Credit Lender's obligation to make the Revolving Credit Loans referred to in Section 2.2(b)(i) and to purchase participating interests pursuant to Section 2.2(b)(iii) shall be absolute and unconditional and shall not be affected by any circumstance, including (A) any setoff, counterclaim, recoupment, defense or other right that such Revolving Credit Lender or the Borrower may have against the Swingline Lender, the Borrower or any other Person for any reason whatsoever, (B) the occurrence or continuance of a Default or an Event of Default or the failure to satisfy any of the other conditions specified in Article VI, (C) any adverse change in the condition (financial or otherwise) of the Borrower, (D) any breach of this Agreement or any other Loan Document by the Borrower, any other Credit Party or any other Revolving Credit Lender or (E) any other circumstance, happening or event whatsoever, whether or not similar to any of the foregoing.

(v) If any Revolving Credit Lender fails to make available to the Administrative Agent for the account of the Swingline Lender any amount required to be paid by such Revolving Credit Lender pursuant to the foregoing provisions of this Section 2.2(b) by the time specified in Section 2.2(b)(i) or 2.2(b)(iii), as applicable, the Swingline Lender shall be entitled to recover from such Revolving Credit Lender (acting through the Administrative Agent), on demand, such

amount with interest thereon for the period from the date such payment is required to the date on which such payment is immediately available to the Swingline Lender at a rate per annum equal to the Overnight Rate, plus any administrative, processing or similar fees customarily charged by the Swingline Lender in connection with the foregoing. If such Revolving Credit Lender pays such amount (with interest and fees as aforesaid), the amount so paid shall constitute such Revolving Credit Lender's Revolving Credit Loan or Swingline Participation Amount, as the case may be. A certificate of the Swingline Lender submitted to any Revolving Credit Lender (through the Administrative Agent) with respect to any amounts owing under this clause (iii) shall be conclusive absent manifest error.

(c) Defaulting Lenders. Notwithstanding anything to the contrary contained in this Agreement, this Section 2.2 shall be subject to the terms and conditions of Section 5.14 and Section 5.15.

SECTION 2.3 Procedure for Advances of Revolving Credit Loans and Swingline Loans.⁴

(a) Requests for Borrowing. The Borrower shall give the Administrative Agent irrevocable prior written notice substantially in the form of Exhibit B (a "Notice of Borrowing") not later than 11:00 a.m. (i) on the same Business Day as each Base Rate Loan and each Swingline Loan and (ii)(A) in the case of a Term SOFR Loan or Term CORRA Loan, at least three (3) RFR Business Days before such Term SOFR Loan or Term CORRA Loan, as applicable, (B) in the case of a Daily Simple SONIA Loan, at least five (5) RFR Business Days before such Daily Simple SONIA Loan, and (C) in the case of a Eurocurrency Rate Loan denominated in any Alternative Currency, at least four (4) Eurocurrency Banking Days before such Eurocurrency Rate Loan (or five (5) Eurocurrency Banking Days in the case of a Special Notice Currency), of its intention to borrow, in each case, specifying (1) the date of such borrowing, which shall be a Business Day, (2) the Currency of such borrowing, (3) the amount of such borrowing, which shall be, (x) with respect to Base Rate Loans (other than Swingline Loans) in an aggregate principal amount of \$500,0005,000,000 or a whole multiple of \$100,000 in excess thereof, (y) with respect to Eurocurrency Rate Loans, Term SOFR and RFR Loans and Daily Simple SONIA Loans, in an aggregate principal amount of \$2,000,000 or a whole multiple of \$1,000,000 (or, if such Loan is denominated in an Alternative Currency, 1,000,000 units of such currency) in excess thereof and (z) with respect to Swingline Loans in an aggregate principal amount of \$100,0001,000,000 or a whole multiple of \$100,000 in excess thereof (or, in each case, the remaining amount of the Revolving Credit Commitment or the Swingline Commitment, as applicable), (4) whether such Loan is to be a Revolving Credit Loan or Swingline Loan, (5) in the case of a Revolving Credit Loan— to be made in Dollars whether the Loans are to be Term SOFR Loans or Base Rate Loans, (6) in the case of a Revolving Credit Loan whether such Revolving Credit Loan is to be a Eurocurrency Rate Loan, a Daily Simple SONIA Loan, a Term SOFR Loan, a Term CORRA Loan or a Base Rate Loan— and (67) in the case of a Eurocurrency Rate Loan, a Term CORRA Loan or a Term SOFR Loan, the duration of the Interest Period applicable thereto. If the Borrower fails to specify the Currency type of a Loan in a Notice of

⁴ Note: During the Forbearance Period, prior to the Lenders making or participating in any Extensions of Credit and/or any Issuing Lender issuing or extending any Letter of Credit, the Credit Parties shall deliver a certificate of a Responsible Officer of each Credit Party, together with the Notice of Borrowing, certifying (i) that no Default or Event of Default (other than the Specified Events of Default (as such term is defined in the Forbearance Agreement)) shall have occurred and be continuing (A) on the borrowing, continuation or conversion date with respect to such Loan or after giving effect to the Loans to be made, continued or converted on such date or (B) on the issuance or extension date with respect to such Letter of Credit or after giving effect to the issuance or extension of such Letter of Credit on such date, (ii) compliance with the financial covenant set forth in Section 9.11(e) of the Credit Agreement (except any non-compliance that results or resulted in any Specified Events of Default) as of the last day of the most recent Measurement Period (together with reasonably detailed calculations), and (iii) compliance with Section 2.4(b)(iii) of the Credit Agreement (together with reasonably detailed calculations).

Borrowing, then the applicable Loans shall be made ~~in Dollars as Base Rate Loans denominated in Dollars; provided, however, with respect to a Loan denominated in an Alternative Currency, such Loans shall be made as Eurocurrency Rate Loans with an Interest Period of one month, Term CORRA Loans with an Interest Period of one month, or Daily Simple SONIA Loans, as applicable.~~ If the Borrower fails to specify a ~~type of Loan denominated in Dollars~~^{currency} in a Notice of Borrowing, then the ~~applicable Loans~~^{Loan so requested} shall be made ~~as Base Rate Loans in Dollars~~. If the Borrower requests a borrowing of ~~a~~ Eurocurrency Rate ~~Loan or a~~ Loans, Term CORRA Loans or Term SOFR ~~Loan~~ Loans in any such Notice of Borrowing, but fails to specify an Interest Period, it will be deemed to have specified an Interest Period of one month. A Notice of Borrowing received after 11:00 a.m. shall be deemed received on the next Business Day, RFR Business Day or Eurocurrency Banking Day, as applicable. The Administrative Agent shall promptly notify the Revolving Credit Lenders of each Notice of Borrowing.

(b) Disbursement of Revolving Credit and Swingline Loans. Not later than 1:00 p.m. in the case of any Loan denominated in Dollars, and not later than the Applicable Time specified by the Administrative Agent in the case of any Loan denominated in an Alternative Currency, in each case on the proposed borrowing date, (i) each Revolving Credit Lender will make available to the Administrative Agent, for the account of the Borrower, at the Administrative Agent's Office in Same Day Funds for the applicable Currency, such Revolving Credit Lender's Revolving Credit Commitment Percentage of the Revolving Credit Loans to be made on such borrowing date and (ii) the Swingline Lender will make available to the Administrative Agent, for the account of the Borrower, at the Administrative Agent's Office in Same Day Funds, the Swingline Loans to be made on such borrowing date. The Borrower hereby irrevocably authorizes the Administrative Agent to disburse the proceeds of each borrowing requested pursuant to this Section in Same Day Funds by crediting or wiring such proceeds to the deposit account of the Borrower identified in the most recent notice substantially in the form attached as ***Exhibit C*** (a "Notice of Account Designation") delivered by the Borrower to the Administrative Agent or as may be otherwise agreed upon by the Borrower and the Administrative Agent from time to time. Subject to ***Section 5.7*** hereof, the Administrative Agent shall not be obligated to disburse the portion of the proceeds of any Revolving Credit Loan requested pursuant to this Section to the extent that any Revolving Credit Lender has not made available to the Administrative Agent its Revolving Credit Commitment Percentage of such Loan. Revolving Credit Loans to be made for the purpose of refunding Swingline Loans shall be made by the Revolving Credit Lenders as provided in ***Section 2.2(b)***.

SECTION 2.4 Repayment and Prepayment of Revolving Credit and Swingline Loans.

(a) Repayment on Termination Date. The Borrower hereby agrees to repay the outstanding principal amount of (i) all Revolving Credit Loans made to the Borrower in full on the Revolving Credit Maturity Date, and (ii) all Swingline Loans made to the Borrower in accordance with ***Section 2.2(b)*** (but, in any event, no later than the earlier to occur of (x) the date that is seven (7) days after such Loan is made and (y) Revolving Credit Maturity Date), in each case, (A) in the Currency in which such Loan is denominated and (B) together with all accrued but unpaid interest thereon.

(b) Mandatory Prepayments.

(i) If at any time the Revolving Credit Outstandings exceed the Revolving Credit Commitment ~~less the Reserve~~, the Borrower agrees to repay immediately upon notice from the Administrative Agent, by payment to the Administrative Agent for the account of the Revolving Credit Lenders, Extensions of Credit in an amount equal to such excess with each such repayment applied first, to the principal amount of outstanding Swingline Loans, second to the principal amount of outstanding Revolving Credit Loans and third, with respect to any Letters of Credit then outstanding, a payment of Cash Collateral into a Cash Collateral account opened by

the Administrative Agent, for the benefit of the Revolving Credit Lenders, in an amount equal to such excess (such Cash Collateral to be applied in accordance with Section 10.2(b)).

(ii) If at any time the Administrative Agent notifies the Borrower that the sum of the Dollar Equivalent of the total Revolving Credit Outstandings denominated in Alternative Currencies or Alternative L/C Currencies, as applicable, exceeds an amount equal to 105% of the Alternative Currency Sublimit then in effect, the Borrower agrees to repay within two (2) Business Days after receipt of such notice from the Administrative Agent, by payment to the Administrative Agent for the account of the Revolving Credit Lenders, Revolving Credit Loans denominated in Alternate Currencies and/ or provide Cash Collateral for Letters of Credit denominated in Alternate L/C Currencies in an aggregate amount sufficient to reduce such amount as of such date of payment to an amount not to exceed 100% of the Alternative Currency Sublimit then in effect with each such repayment applied first to the principal amount of outstanding Revolving Credit Loans denominated in any Alternative Currency and second, with respect to any Letters of Credit denominated in any Alternative L/C Currency then outstanding, as a payment of Cash Collateral in the applicable Currency into a Cash Collateral account or Cash Collateral accounts opened by the Administrative Agent, for the benefit of the Revolving Credit Lenders (any such Cash Collateral to be applied in accordance with Section 10.2(b)).

(iii) If at any time the aggregate amount of Unrestricted Cash and Cash Equivalents (excluding any (x) cash on deposit in accounts the exclusive function of which is to serve as a payroll account and limited to amounts in the aggregate reasonably estimated to cover payroll for a two-week period and (y) to the extent ~~the~~^{any} TSA is in effect, on deposit in accounts held in connection with collecting accounts receivable and processing accounts payable pursuant to the ~~Project Emerald Transaction~~^{applicable sale transaction}) exceeds ~~\$100,000,000~~^{\$85,000,000} as of the last day of any week, the Borrower shall on the next Business Day thereafter prepay (without a permanent reduction in the Revolving Credit Commitments) outstanding Revolving Credit Loans in an aggregate principal amount equal to the amount of such excess.

(iv) The Borrower shall make mandatory principal prepayments (so long as no Event of Default has occurred and is continuing, without a permanent reduction in the Revolving Credit Commitments) of any Outstanding Revolving Credit Loans in amounts equal to one hundred percent (100%) of the aggregate Net Cash Proceeds received from Dispositions (other than any Disposition permitted pursuant to, and in accordance with, Section 9.5 (excluding Section 9.5(g), (i) and (o))), including the Specified Sale Transactions, by the Borrower or any of its Subsidiaries occurring from and after the Seventh Amendment Effective Date; provided, that, to the extent the aggregate Net Cash Proceeds from such Dispositions exceed \$85,000,000, the Borrower shall not be required to make any further mandatory principal prepayments pursuant to this clause (iv) (it being understood that Net Cash Proceeds from such Dispositions in excess of \$85,000,000 shall be treated in accordance with Section 4.4(b)(ii)). Such prepayments shall be made within three (3) Business Days after the date of receipt of the Net Cash Proceeds; provided that the Borrower shall not be required to make any such prepayment in connection with any Disposition by a direct or indirect Foreign Subsidiary of the Borrower or a Domestic Subsidiary of any Foreign Subsidiary of the Borrower to the extent that and for so long as the application of such proceeds would (i) be prohibited by Applicable Law (and the Borrower hereby agrees to, and to cause the applicable Foreign Subsidiary or Domestic Subsidiary to, promptly take all actions reasonably required by Applicable Law to permit such application) or (ii) result in material adverse tax consequences to the Borrower and its Subsidiaries, as determined in good faith by the Borrower (taking into account any foreign tax credit or benefit that would be actually realized in connection with the repatriation of such funds).

(c) Optional Prepayments. The Borrower may at any time and from time to time prepay Revolving Credit Loans and Swingline Loans, in whole or in part, without premium or penalty, with irrevocable prior written notice from the Borrower to the Administrative Agent substantially in the form attached as ***Exhibit D*** (a "Notice of Prepayment") given not later than 11:00 a.m. (i) on the same Business Day ~~as of the intended~~ prepayment of each Base Rate Loan and each Swingline Loan ~~and~~, (ii) ~~(A) in the case of a Term SOFR Loan, at least three (3) RFR Business Days before the intended prepayment of such each Term SOFR Loan, (B) in the case of a Daily Simple SONIA Loan, at least five (5) RFR Business or Term CORRA Loan, (iii) four (4) Eurocurrency Banking Days before the intended prepayment of such Daily Simple SONIA Loan, and (C) in the case of each Eurocurrency Rate Loan denominated in any Alternative Currency, and (iv) at least four (4) Eurocurrency Banking RFR Business Days before the intended prepayment of such Eurocurrency Rate Loan (or five (5) Eurocurrency Banking Days in the case of a prepayment of Eurocurrency Rate Loans denominated in a Special Notice Currency), in each case each Daily Simple SONIA Loan~~, specifying the date, ~~Currency~~ and amount of prepayment and whether the prepayment is of Eurocurrency Rate Loans, ~~Base Rate Loans~~, Daily Simple SONIA Loans, Term SOFR Loans, ~~Term CORRA Loans~~, Swingline Loans or a combination thereof, and, if ~~of~~ a combination thereof, the amount allocable to each. Upon receipt of such notice, the Administrative Agent shall promptly notify each Revolving Credit Lender. If any such notice is given, the amount specified in such notice shall be due and payable on the date set forth in such notice. Partial prepayments shall be in an aggregate amount of \$500,000 or a whole multiple of \$100,000 in excess thereof with respect to Base Rate Loans (other than Swingline Loans), \$2,000,000 or a whole multiple of \$1,000,000 in excess thereof with respect to Eurocurrency Rate Loans, ~~Term SOFR Loans or Daily Simple SONIA and RFR~~ Loans and \$100,000 or a whole multiple of \$100,000 in excess thereof with respect to Swingline Loans. A Notice of Prepayment received after 11:00 a.m. shall be deemed received on the next Business Day, RFR Business Day or Eurocurrency Banking Day, as applicable. Each such repayment shall be accompanied by any amount required to be paid pursuant to Section 5.9 hereof. Notwithstanding the foregoing, any Notice of a Prepayment delivered in connection with any refinancing of all of the Credit Facility with the proceeds of such refinancing or of any incurrence of Indebtedness or the occurrence of some other identifiable event or condition, may be, if expressly so stated to be, contingent upon the consummation of such refinancing or incurrence or occurrence of such other identifiable event or condition and may be revoked by the Borrower in the event such contingency is not met (provided that the failure of such contingency shall not relieve the Borrower from its obligations in respect thereof under Section 5.9).

(d) Limitation on Prepayment of Eurocurrency Rate Loans and RFR Loans. The Borrower may not prepay any Eurocurrency Rate Loan, ~~Term CORRA Loan~~ or Term SOFR Loan on any day other than on the last day of the Interest Period applicable thereto, or any Daily Simple SONIA Loan on ~~any day other than an the~~ Interest Payment Date ~~therefor, applicable thereto, in each case~~ unless such prepayment is accompanied by any amount required to be paid pursuant to Section 5.9 hereof.

(e) Hedge Agreements. No repayment or prepayment of the Loans pursuant to this Section shall affect any of the Borrower's obligations under any Hedge Agreement entered into with respect to the Loans.

SECTION 2.5 Permanent Reduction of the Revolving Credit Commitment.

(a) Voluntary Reduction. The Borrower shall have the right at any time and from time to time, upon at least five (5) Business Days prior irrevocable written notice from the Borrower to the Administrative Agent, to permanently reduce, without premium or penalty, (i) the entire Revolving Credit Commitment at any time or (ii) portions of the Revolving Credit Commitment, from time to time, in an aggregate principal amount not less than \$3,000,000 or any whole multiple of \$1,000,000 in excess thereof. Any reduction of the Revolving Credit Commitment shall be applied to the Revolving Credit

Commitment of each Revolving Credit Lender according to its Revolving Credit Commitment Percentage. All Commitment Fees accrued until the effective date of any termination of the Revolving Credit Commitment shall be paid on the effective date of such termination. Notwithstanding the foregoing, any notice to reduce the Revolving Credit Commitment delivered in connection with any refinancing of all of the Credit Facility with the proceeds of such refinancing or of any incurrence of Indebtedness or the occurrence of some other identifiable event or condition, may be, if expressly so stated to be, contingent upon the consummation of such refinancing or incurrence or occurrence of such identifiable event or condition and may be revoked by the Borrower in the event such contingency is not met (provided that the failure of such contingency shall not relieve the Borrower from its obligations in respect thereof under Section 5.9).

(b) Corresponding Payment. Each permanent reduction permitted pursuant to this Section shall be accompanied by a payment of principal sufficient to reduce the aggregate outstanding Revolving Credit Loans, Swingline Loans and L/C Obligations, as applicable, after such reduction to the Revolving Credit Commitment as so reduced and if the aggregate amount of all outstanding Letters of Credit exceeds the Revolving Credit Commitment as so reduced, the Borrower shall be required to deposit Cash Collateral in a Cash Collateral account opened by the Administrative Agent in an amount equal to such excess. Such Cash Collateral shall be applied in accordance with Section 10.2(b). Any reduction of the Revolving Credit Commitment to zero shall be accompanied by payment of all outstanding Revolving Credit Loans and Swingline Loans (and furnishing of Cash Collateral reasonably satisfactory to the Administrative Agent for all L/C Obligations or other arrangements satisfactory to the respective Issuing Lenders) and shall result in the termination of the Revolving Credit Commitment, the Swingline Commitment, the Alternative Currency Sublimit and the Revolving Credit Facility. If the reduction of the Revolving Credit Commitment requires the repayment of any Eurocurrency Rate Loan, any Term SOFR Loan or any Daily Simple SONIA Loan, such repayment shall be accompanied by any amount required to be paid pursuant to Section 5.9 hereof.

SECTION 2.6 Termination of Revolving Credit Facility. The Revolving Credit Facility and the Revolving Credit Commitments shall terminate on the Revolving Credit Maturity Date.

ARTICLE III

LETTER OF CREDIT FACILITY

SECTION 3.1 L/C Facility.

(a) Availability. Subject to the terms and conditions hereof, each Issuing Lender, in reliance on the agreements of the Revolving Credit Lenders set forth in Section 3.4(a), agrees to issue standby Letters of Credit in Dollars or one or more Alternative L/C Currencies in the Dollar Equivalent of an aggregate amount not to exceed its L/C Commitment for the account of the Borrower or, subject to Section 3.10, any Subsidiary thereof. Letters of Credit may be issued on any Business Day from the Closing Date to, but not including the thirtieth (30th) Business Day prior to the Revolving Credit Maturity Date in such form as may be approved from time to time by the applicable Issuing Lender; provided, that no Issuing Lender shall issue any Letter of Credit if, after giving effect to such issuance, (i) the aggregate amount of the outstanding Letters of Credit issued by such Issuing Lender would exceed its L/C Commitment, (ii) the L/C Obligations would exceed the L/C Sublimit, (iii) the Revolving Credit Outstandings would exceed the Revolving Credit Commitment less the Reserve or (iv) the Dollar Equivalent of the aggregate principal amount of all outstanding Revolving Credit Loans denominated in

Alternative Currencies and Letters of Credit denominated in Alternative L/C Currencies would exceed the Alternative Currency Sublimit.

(b) Terms of Letters of Credit. Each Letter of Credit shall (i) be denominated in Dollars or one or more Alternative L/C Currencies, (ii) expire on a date no more than twelve (12) months after the date of issuance or last renewal of such Letter of Credit (subject to automatic renewal for additional one (1) year periods (but not to a date later than the date set forth below) pursuant to the terms of the Letter of Credit Documents or other documentation acceptable to the applicable Issuing Lender), which date shall be no later than the fifth (5th) Business Day prior to the Revolving Credit Maturity Date and (iii) be subject to the ISP or the UCP as set forth in the Letter of Credit Documents or as determined by the applicable Issuing Lender and, to the extent not inconsistent therewith, the laws of the State of New York. No Issuing Lender shall at any time be obligated to issue any Letter of Credit hereunder if (A) any order, judgment or decree of any Governmental Authority or arbitrator shall by its terms purport to enjoin or restrain such Issuing Lender from issuing such Letter of Credit, or request that such Issuing Lender refrain from, or any Applicable Law applicable to such Issuing Lender or any request or directive (whether or not having the force of law) from any Governmental Authority with jurisdiction over such Issuing Lender shall prohibit, the issuance of letters of credit generally or such Letter of Credit in particular or shall impose upon such Issuing Lender with respect to letters of credit generally or such Letter of Credit in particular any restriction or reserve or capital requirement (for which such Issuing Lender is not otherwise compensated) not in effect on the Closing Date, or any unreimbursed loss, cost or expense that was not applicable, in effect or known to such Issuing Lender as of the Closing Date and that such Issuing Lender in good faith deems material to it, (B) the conditions set forth in Section 6.2 are not satisfied, (C) the issuance of such Letter of Credit would violate one or more policies of such Issuing Lender applicable to letters of credit generally, (D) proceeds of which would be made available to any Person (x) to fund any activity or business of or with any Sanctioned Person, or in any Sanctioned Country or (y) in any manner that would result in a violation of any Sanctions by any party to this Agreement or (E) any Revolving Credit Lender is at that time a Defaulting Lender, unless such Issuing Lender has entered into arrangements, including the delivery of Cash Collateral, satisfactory to such Issuing Lender (in its sole discretion) with the Borrower or such Lender to eliminate such Issuing Lender's actual or potential Fronting Exposure (after giving effect to Section 5.15(a)(iv)) with respect to the Defaulting Lender arising from either the Letter of Credit then proposed to be issued or that Letter of Credit and all other L/C Obligations as to which such Issuing Lender has actual or potential Fronting Exposure, as it may elect in its sole discretion. An Issuing Lender shall be under no obligation to amend any Letter of Credit if (x) such Issuing Lender would have no obligation at such time to issue the Letter of Credit in its amended form under the terms hereof or (y) the beneficiary of such Letter of Credit does not accept the proposed amendment to the Letter of Credit. References herein to "issue" and derivations thereof with respect to Letters of Credit shall also include extensions or modifications of any outstanding Letters of Credit, unless the context otherwise requires. As of the Closing Date, each of the Existing Letters of Credit shall constitute, for all purposes of this Agreement and the other Loan Documents, a Letter of Credit issued and outstanding hereunder.

(c) Defaulting Lenders. Notwithstanding anything to the contrary contained in this Agreement, Article III shall be subject to the terms and conditions of Section 5.14 and Section 5.15.

SECTION 3.2 Procedure for Issuance and Disbursement of Letters of Credit.

(a) The Borrower may from time to time request that any Issuing Lender issue, amend, renew or extend a Letter of Credit by delivering to such Issuing Lender at its applicable office (with a copy to the Administrative Agent at the Administrative Agent's Office) a Letter of Credit Application therefor, completed to the satisfaction of such Issuing Lender, and such other certificates, documents and other Letter of Credit Documents and information as such Issuing Lender or the Administrative Agent

may request, not later than 11:00 a.m. at least two (2) Business Days (or such later date and time as the Administrative Agent and such Issuing Lender may agree in their sole discretion) prior to the proposed date of issuance, amendment, renewal or extension, as the case may be. Such notice shall specify (i) the requested date of issuance, amendment, renewal or extension (which shall be a Business Day), (ii) the date on which such Letter of Credit is to expire (which shall comply with Section 3.1(b)), (iii) the amount and Currency of such Letter of Credit, (iv) the name and address of the beneficiary thereof, (v) the purpose and nature of such Letter of Credit and (vi) such other information as shall be necessary to issue, amend, renew or extend such Letter of Credit. Upon receipt of any Letter of Credit Application, the applicable Issuing Lender shall, process such Letter of Credit Application and the certificates, documents and other Letter of Credit Documents and information delivered to it in connection therewith in accordance with its customary procedures and shall, subject to Section 3.1 and Article VI, promptly issue, amend, renew or extend the Letter of Credit requested thereby (subject to the timing requirements set forth in this Section 3.2) by issuing the original of such Letter of Credit to the beneficiary thereof or as otherwise may be agreed by such Issuing Lender and the Borrower. Additionally, the Borrower shall furnish to the applicable Issuing Lender and the Administrative Agent such other documents and information pertaining to such requested Letter of Credit issuance or amendment, renewal or extension, including any Letter of Credit Documents, as the applicable Issuing Lender or the Administrative Agent may require. The applicable Issuing Lender shall promptly furnish to the Borrower and the Administrative Agent a copy of such Letter of Credit and the related Letter of Credit Documents and the Administrative Agent shall promptly notify each Revolving Credit Lender of the issuance and upon request by any Revolving Credit Lender, furnish to such Revolving Credit Lender a copy of such Letter of Credit and the amount of such Revolving Credit Lender's participation therein.

(b) The Issuing Lender for any Letter of Credit shall, within the time allowed by Applicable Laws or the specific terms of the Letter of Credit following its receipt thereof, examine all documents purporting to represent a demand for payment under such Letter of Credit. Such Issuing Lender shall promptly after such examination notify the Administrative Agent and the Borrower in writing of such demand for payment if such Issuing Lender has or will honor such demand for payment thereunder; provided that any failure to give or delay in giving such notice shall not relieve the Borrower of its obligation to reimburse such Issuing Lender and the L/C Participants with respect to such payment.

SECTION 3.3 Commissions and Other Charges.

(a) Letter of Credit Commissions. Subject to Section 5.15(a)(iii)(B), the Borrower shall pay to the Administrative Agent, for the account of the applicable Issuing Lender and the L/C Participants, a letter of credit commission with respect to each Letter of Credit in the amount equal to the Dollar Equivalent of the daily amount available to be drawn under such standby Letters of Credit times the Applicable Margin with respect to Revolving Credit Loans that are Eurocurrency Rate Loans or RFR Loans (determined, in each case, on a per annum basis). Such commission shall be payable in Dollars quarterly in arrears within fifteen (15) days after the last dayBusiness Day of each calendar quarter (commencing with the first such date to occur after the issuance of such Letter of Credit), on the Revolving Credit Maturity Date and thereafter on demand of the Administrative Agent. The Administrative Agent shall, promptly following its receipt thereof, distribute to the applicable Issuing Lender and the L/C Participants all commissions received pursuant to this Section 3.3 in accordance with their respective Revolving Credit Commitment Percentages.

(b) Issuance Fee. In addition to the foregoing commission, the Borrower shall pay directly to the applicable Issuing Lender, for its own account, an issuance fee with respect to each Letter of Credit issued by such Issuing Lender in an amount equal to 0.125% per annum on the daily maximum available amount available to be drawn under such Letter of Credit issued by such Issuing Lender. Such issuance fee shall be payable in Dollars quarterly in arrears on the last Business Day of each calendar

quarter commencing with the first such date to occur after the issuance of such Letter of Credit, on the Revolving Credit Maturity Date and thereafter on demand of the applicable Issuing Lender. For the avoidance of doubt, such issuance fee shall be applicable to and paid upon each of the Existing Letters of Credit.

(c) Other Fees, Costs, Charges and Expenses. In addition to the foregoing fees and commissions, the Borrower shall pay or reimburse each Issuing Lender in Dollars for such normal and customary fees, costs, charges and expenses as are incurred or charged by such Issuing Lender in issuing, effecting payment under, amending or otherwise administering any Letter of Credit issued by it.

SECTION 3.4 L/C Participations.

(a) Each Issuing Lender irrevocably agrees to grant and hereby grants to each L/C Participant, and, to induce each Issuing Lender to issue Letters of Credit hereunder, each L/C Participant irrevocably agrees to accept and purchase and hereby accepts and purchases from each Issuing Lender, on the terms and conditions hereinafter stated, for such L/C Participant's own account and risk an undivided interest equal to such L/C Participant's Revolving Credit Commitment Percentage in each Issuing Lender's obligations and rights under and in respect of each Letter of Credit issued by it hereunder and the amount of each draft paid by such Issuing Lender thereunder. Each L/C Participant unconditionally and irrevocably agrees with each Issuing Lender that if a draft is paid under any Letter of Credit issued by such Issuing Lender for which such Issuing Lender is not reimbursed in full by the Borrower through a Revolving Credit Loan or otherwise in accordance with the terms of this Agreement, such L/C Participant shall pay to such Issuing Lender, in the applicable Currency in which such Letter of Credit is denominated, upon demand at such Issuing Lender's address for notices specified herein an amount equal to such L/C Participant's Revolving Credit Commitment Percentage of the amount of such draft, or any part thereof, which is not so reimbursed.

(b) Upon becoming aware of any amount required to be paid by any L/C Participant to any Issuing Lender pursuant to Section 3.4(a) in respect of any unreimbursed portion of any payment made by such Issuing Lender under any Letter of Credit, issued by it, such Issuing Lender shall notify the Administrative Agent of such unreimbursed amount and the Currency thereof and the Administrative Agent shall notify each L/C Participant (with a copy to the applicable Issuing Lender) of the amount, Currency and due date of such required payment and such L/C Participant shall pay to the Administrative Agent, in the applicable Currency in which such Letter of Credit is denominated, which, in turn shall pay such Issuing Lender, the amount specified on the applicable due date. If any such amount is paid to such Issuing Lender after the date such payment is due, such L/C Participant shall pay to the Administrative Agent, which in turn shall pay such Issuing Lender, in the applicable currency in which such Letter of Credit is denominated, on demand, in addition to such amount, the product of (i) such amount, times (ii) the applicable Overnight Rate as determined by the Administrative Agent during the period from and including the date such payment is due to the date on which such payment is immediately available to such Issuing Lender, times (iii) a fraction the numerator of which is the number of days that elapse during such period and the denominator of which is 360, plus any administrative, processing or similar fees customarily charged by such Issuing Lender in connection with the foregoing. A certificate of such Issuing Lender with respect to any amounts owing under this Section shall be conclusive in the absence of manifest error. With respect to payment to such Issuing Lender of the unreimbursed amounts described in this Section, if the L/C Participants receive notice that any such payment is due (A) prior to 1:00 p.m. on any Business Day, such payment shall be due that Business Day, and (B) after 1:00 p.m. on any Business Day, such payment shall be due on the following Business Day.

(c) Whenever, at any time after any Issuing Lender has made payment under any Letter of Credit issued by it and has received from any L/C Participant its Revolving Credit Commitment

Percentage of such payment in accordance with this Section, such Issuing Lender receives any payment related to such Letter of Credit (whether directly from the Administrative Agent or otherwise), or any payment of interest on account thereof, such Issuing Lender will distribute to such L/C Participant its pro rata share thereof, provided, that in the event that any such payment received by such Issuing Lender shall be required to be returned by such Issuing Lender, such L/C Participant shall return to the Administrative Agent, which shall in turn pay to such Issuing Lender the portion thereof previously distributed by such Issuing Lender to it.

(d) Each L/C Participant's obligation to make the Revolving Credit Loans referred to in Section 3.4(b) and to purchase participating interests pursuant to this Section 3.4 or Section 3.5, as applicable, shall be absolute and unconditional and shall not be affected by any circumstance, including (i) any setoff, counterclaim, recoupment, defense or other right that such Revolving Credit Lender or the Borrower may have against such Issuing Lender, the Borrower or any other Person for any reason whatsoever, (ii) the occurrence or continuance of a Default or an Event of Default or the failure to satisfy any of the other conditions specified in Article VI, (iii) any adverse change in the condition (financial or otherwise) of the Borrower, (iv) any breach of this Agreement or any other Loan Document by the Borrower, any other Credit Party or any other Revolving Credit Lender, (v) any adverse change in the relevant exchange rates or in the availability of the relevant Alternative L/C Currency to any L/C Participant or in the relevant currency markets generally or (vi) any other circumstance, happening or event whatsoever, whether or not similar to any of the foregoing.

SECTION 3.5 Reimbursement Obligation.

(a) Reimbursement Obligation of the Borrower. In the event of any drawing under any Letter of Credit, the Borrower agrees to reimburse (either with the proceeds of a Revolving Credit Loan as provided for in this Section or with funds from other sources), in Same Day Funds, in the Currency of such Letter of Credit, the applicable Issuing Lender by paying to the Administrative Agent the amount of such drawing not later than 12:00 noon on (i) the Business Day that the Borrower receives notice of such drawing, if such notice is received by the Borrower prior to 10:00 a.m., or (ii) the Business Day immediately following the day that the Borrower receives such notice, if such notice is not received prior to such time, for the amount of (x) such draft so paid and (y) any amounts referred to in Section 3.3(c) incurred by such Issuing Lender in connection with such payment.

(b) Reimbursement by the Lenders. Unless the Borrower shall immediately notify the Administrative Agent and such Issuing Lender that the Borrower intends to reimburse such Issuing Lender for such drawing from other sources or funds, the Borrower shall be deemed to have timely given a Notice of Borrowing to the Administrative Agent requesting that the Revolving Credit Lenders make a Revolving Credit Loan denominated in Dollars as a Base Rate Loan on the applicable repayment date in the amount ((x) if such drawing is denominated in an Alternative L/C Currency, with such reimbursement obligation hereunder converted to a reimbursement obligation in an amount equal to the Dollar Equivalent of such amount in such Alternative L/C Currency and (y) without regard to the minimum and multiples specified in Section 2.3(a)) of (i) such draft so paid and (ii) any amounts referred to in Section 3.3(c) incurred by such Issuing Lender in connection with such payment (including any and all costs, fees and other expenses incurred by the applicable Issuing Lender in effecting the payment of any Letter of Credit denominated in an Alternative L/C Currency), and the Revolving Credit Lenders shall make a Revolving Credit Loan denominated in Dollars as a Base Rate Loan in such amount, the proceeds of which shall be applied to reimburse such Issuing Lender for the amount of the related drawing and such fees and expenses. Each Revolving Credit Lender acknowledges and agrees that its obligation to fund a Revolving Credit Loan in accordance with this Section to reimburse such Issuing Lender for any draft paid under a Letter of Credit issued by it is absolute and unconditional and shall not be affected by any circumstance whatsoever, including non-satisfaction of the conditions set forth in

Section 2.3(a) or Article VI. If the Borrower has elected to pay the amount of such drawing with funds from other sources and shall fail to reimburse such Issuing Lender in the applicable Currency as provided above, or if the amount of such drawing is not fully refunded through a Base Rate Loan as provided above, the unreimbursed amount of such drawing shall bear interest at the rate which would be payable on any outstanding Base Rate Loans which were then overdue from the date such amounts become payable (whether at stated maturity, by acceleration or otherwise) until paid in full.

(c) Exchange Indemnification and Increased Costs. The Borrower shall, upon demand from any Issuing Lender or L/C Participant, pay to such Issuing Lender or L/C Participant, the amount of (i) any loss or cost or increased cost incurred by such Issuing Lender or L/C Participant, (ii) any reduction in any amount payable to or in the effective return on the capital to such Issuing Lender or L/C Participant and (iii) any currency exchange loss, in each case that such Issuing Lender or L/C Participant sustains as a result of the Borrower's repayment in Dollars of any Letter of Credit denominated in an Alternative L/C Currency. A certificate of such Issuing Lender setting forth in reasonable detail the basis for determining such additional amount or amounts necessary to compensate such Issuing Lender shall be conclusively presumed to be correct save for manifest error.

SECTION 3.6 Obligations Absolute.

(a) The Borrower's obligations under this Article III (including the Reimbursement Obligation) shall be absolute, unconditional and irrevocable under any and all circumstances whatsoever, and shall be performed strictly in accordance with the terms of this Agreement, and irrespective of:

(i) any lack of validity or enforceability of any Letter of Credit, any Letter of Credit Document or this Agreement, or any term or provision therein or herein;

(ii) the existence of any claim, counterclaim, setoff, defense or other right that the Borrower may have or have had against the applicable Issuing Lender or any beneficiary of a Letter of Credit (or any Person for whom any such beneficiary or any such transferee may be acting), the applicable Issuing Lender or any other Person, whether in connection with this Agreement, the transactions contemplated hereby or by such Letter of Credit or any agreement or instrument relating thereto, or any unrelated transaction;

(iii) the validity or genuineness of documents or of any endorsements thereon, even though such documents shall in fact prove to be invalid, fraudulent, forged or insufficient in any respect or any statement in such draft or other document being untrue or inaccurate in any respect; or any loss or delay in the transmission or otherwise of any document required in order to make a drawing under such Letter of Credit;

(iv) any payment by the Issuing Lender under a Letter of Credit against presentation of a draft or other document that does not comply with the terms of such Letter of Credit;

(v) any adverse change in the relevant exchange rates or in the availability of the relevant Alternative L/C Currency to the Borrower or any Subsidiary or in the relevant currency markets generally;

(vi) any draft or other document presented under a Letter of Credit proving to be forged, fraudulent or invalid in any respect or any statement in such draft or other document being untrue or inaccurate in any respect; or

(vii) any other event or circumstance whatsoever, whether or not similar to any of the foregoing, that might, but for the provisions of this Section, constitute a legal or equitable discharge of, or provide a right of setoff against, the Borrower's obligations hereunder.

(b) The Borrower also agrees that the applicable Issuing Lender and the L/C Participants shall not be responsible for, and the Borrower's Reimbursement Obligation under Section 3.5 shall not be affected by, among other things, the validity or genuineness of documents or of any endorsements thereon, even though such documents shall in fact prove to be invalid, fraudulent or forged, or any dispute between or among the Borrower and any beneficiary of any Letter of Credit or any other party to which such Letter of Credit may be transferred or any claims whatsoever of the Borrower against any beneficiary of such Letter of Credit or any such transferee. The applicable Issuing Lender, the L/C Participants and their respective Related Parties shall not have any liability or responsibility by reason of or in connection with the issuance or transfer of any Letter of Credit, or any payment or failure to make any payment thereunder (irrespective of any of the circumstances referred to in the preceding sentence), or any error, omission, interruption, loss or delay in transmission or delivery of any draft, notice or other communication under or relating to any Letter of Credit (including any document required to make a drawing thereunder), any error in interpretation of technical terms or any consequence arising from causes beyond the control of the applicable Issuing Lender; provided that the foregoing shall not be construed to excuse an Issuing Lender from liability to the Borrower to the extent of any direct damages (as opposed to special, indirect, consequential or punitive damages, claims in respect of which are hereby waived by the Borrower to the extent permitted by Applicable Law) suffered by the Borrower that are caused by such Issuing Lender's failure to exercise care when determining whether drafts and other documents presented under a Letter of Credit comply with the terms thereof. The parties hereto expressly agree that, in the absence of gross negligence or willful misconduct on the part of the applicable Issuing Lender (as finally determined by a court of competent jurisdiction), such Issuing Lender shall be deemed to have exercised care in each such determination.

(c) In furtherance of the foregoing and without limiting the generality thereof, the parties agree that (i) with respect to documents presented which appear on their face to be in substantial compliance with the terms of a Letter of Credit, the applicable Issuing Lender may, in its sole discretion, either accept and make payment upon such documents without responsibility for further investigation, regardless of any notice or information to the contrary, or refuse to accept and make payment upon such documents if such documents are not in strict compliance with the terms of such Letter of Credit, (ii) an Issuing Lender may act upon any instruction or request relative to a Letter of Credit or requested Letter of Credit that such Issuing Lender in good faith believes to have been given by a Person authorized to give such instruction or request and (iii) an Issuing Lender may replace a purportedly lost, stolen, or destroyed original Letter of Credit or missing amendment thereto with a certified true copy marked as such or waive a requirement for its presentation. The responsibility of any Issuing Lender to the Borrower in connection with any draft presented for payment under any Letter of Credit issued by it shall, in addition to any payment obligation expressly provided for in such Letter of Credit, be limited to determining that the documents (including each draft) delivered under such Letter of Credit in connection with such presentment substantially conforms to the requirements under such Letter of Credit.

(d) Notwithstanding anything to the contrary herein, no Issuing Lender shall be responsible to the Borrower for, and such Issuing Lender's rights and remedies against the Borrower shall not be impaired by, any action or inaction of such Issuing Lender required or permitted under any law, order, or practice that is required or permitted to be applied to any Letter of Credit or this Agreement, including the Applicable Laws or any order of a jurisdiction in which such Issuing Lender or the beneficiary is located, the practice stated in the ISP or in the decisions, opinions, practice statements or official commentary of the International Chamber of Commerce Banking Commission, the Banker's Association

for Finance and Trade (BAFT) or the Institute of International Banking Law & Practice, whether or not any Letter of Credit chooses such laws or practice rules.

SECTION 3.7 Effect of Letter of Credit Documents. To the extent that any provision of any Letter of Credit Documents related to any Letter of Credit is inconsistent with the provisions of this Article III, the provisions of this Article III shall apply.

SECTION 3.8 Resignation of Issuing Lenders.

(a) Any Issuing Lender may resign at any time by giving 30 days' prior notice to the Administrative Agent, the Lenders and the Borrower. After the resignation of an Issuing Lender hereunder, the retiring Issuing Lender shall remain a party hereto and shall continue to have all the rights and obligations of an Issuing Lender under this Agreement and the other Loan Documents with respect to Letters of Credit issued by it prior to such resignation, but shall not be required to issue additional Letters of Credit or to extend, renew or increase the outstanding Letter of Credit.

(b) Any resigning Issuing Lender shall retain all the rights, powers, privileges and duties of an Issuing Lender hereunder with respect to all Letters of Credit issued by it that are outstanding as of the effective date of its resignation as an Issuing Lender and all L/C Obligations with respect thereto (including the right to require the Revolving Credit Lenders to take such actions as are required under Section 3.4). Without limiting the foregoing, upon the resignation of a Lender as an Issuing Lender hereunder, the Borrower may, or at the request of such resigned Issuing Lender the Borrower shall, use commercially reasonable efforts to, arrange for one or more of the other Issuing Lenders to issue Letters of Credit in the applicable Currency hereunder in substitution for the Letters of Credit, if any, issued by such resigned Issuing Lender and outstanding at the time of such resignation, or make other arrangements satisfactory to the resigned Issuing Lender to effectively cause another Issuing Lender to assume the obligations of the resigned Issuing Lender with respect to any such Letters of Credit.

SECTION 3.9 Reporting of Letter of Credit Information and L/C Commitment. At any time that there is an Issuing Lender that is not also the financial institution acting as Administrative Agent, then (a) no later than the fifth Business Day following the last day of each calendar month, (b) on each date that a Letter of Credit is amended, terminated or otherwise expires, (c) on each date that a Letter of Credit is issued or the expiry date of a Letter of Credit is extended, and (d) upon the request of the Administrative Agent, each Issuing Lender (or, in the case of clauses (b), (c) or (d) of this Section, the applicable Issuing Lender) shall deliver to the Administrative Agent a report setting forth in form and detail reasonably satisfactory to the Administrative Agent information (including any reimbursement, Cash Collateral, or termination in respect of Letters of Credit issued by such Issuing Lender) with respect to each Letter of Credit issued by such Issuing Lender that is outstanding hereunder. In addition, each Issuing Lender shall provide notice to the Administrative Agent of its L/C Commitment, or any change thereto, promptly upon it becoming an Issuing Lender or making any change to its L/C Commitment. No failure on the part of any Issuing Lender to provide such information pursuant to this Section 3.9 shall limit the obligations of the Borrower or any Revolving Credit Lender hereunder with respect to its reimbursement and participation obligations hereunder.

SECTION 3.10 Letters of Credit Issued for Subsidiaries. Notwithstanding that a Letter of Credit issued or outstanding hereunder is in support of any obligations of, or is for the account of, a Subsidiary, or states that a Subsidiary is the "account party," "applicant," "customer," "instructing party," or the like of or for such Letter of Credit, and without derogating from any rights of the applicable Issuing Lender (whether arising by contract, at law, in equity or otherwise) against such Subsidiary in respect of such Letter of Credit, the Borrower (a) shall be obligated to reimburse, or to cause the applicable Subsidiary to reimburse, the applicable Issuing Lender hereunder for any and all drawings

under such Letter of Credit as if such Letter of Credit had been issued solely for the account of the Borrower and (b) irrevocably waives any and all defenses that might otherwise be available to it as a guarantor or surety of any or all of the obligations of such Subsidiary in respect of such Letter of Credit. The Borrower hereby acknowledges that the issuance of Letters of Credit for the account of any of its Subsidiaries inures to the benefit of the Borrower and that the Borrower's business derives substantial benefits from the businesses of such Subsidiaries.

ARTICLE IV

TERM LOAN FACILITY

SECTION 4.1 Initial Term Loan. Subject to the terms and conditions of this Agreement and the other Loan Documents, and in reliance upon the representations and warranties set forth in this Agreement and the other Loan Documents, each Term Loan Lender severally agrees to make the Initial Term Loan to the Borrower in Dollars on the Closing Date in a principal amount equal to such Lender's Term Loan Commitment as of the Closing Date. Notwithstanding the foregoing, if the total Term Loan Commitment as of the Closing Date is not drawn on the Closing Date, the undrawn amount shall automatically be cancelled.

SECTION 4.2 Procedure for Advance of Term Loan.

(a) **Initial Term Loan.** The Borrower shall give the Administrative Agent an irrevocable Notice of Borrowing prior to 11:00 a.m. on the Closing Date requesting that the Term Loan Lenders make the Initial Term Loan. Upon receipt of such Notice of Borrowing from the Borrower, the Administrative Agent shall promptly notify each Term Loan Lender thereof. Not later than 1:00 p.m. on the Closing Date, each Term Loan Lender will make available to the Administrative Agent for the account of the Borrower, at the Administrative Agent's Office in Same Day Funds in Dollars, the amount of such Initial Term Loan to be made by such Term Loan Lender on the Closing Date. The Borrower hereby irrevocably authorizes the Administrative Agent to disburse the proceeds of the Initial Term Loan in Same Day Funds in Dollars by wire transfer to such Person or Persons as may be designated by the Borrower in writing.

(b) **[Reserved].**

SECTION 4.3 Repayment of Term Loans.

(a) **Initial Term Loan.** The Borrower shall repay the aggregate outstanding principal amount of the Initial Term Loan in consecutive quarterly installments on the last Business Day of each of March, June, September and December commencing June 30, 2023 as set forth below, in Dollars, except as the amounts of individual installments may be adjusted pursuant to Section 4.4 hereof:

PAYMENT DATE	PRINCIPAL INSTALLMENT
June 30, 2023	\$3,937,500
September 30, 2023	\$3,937,500
December 31, 2023	\$3,937,500
March 31, 2024	\$3,937,500
June 30, 2024	\$3,937,500
September 30, 2024	\$3,937,500
December 31, 2024	\$3,937,500
March 31, 2025	\$3,937,500

PAYMENT DATE	PRINCIPAL INSTALLMENT
Term Loan Maturity Date	Remaining principal amount of the Initial Term Loan

If not sooner paid, the Initial Term Loan shall be paid in full, together with accrued interest thereon, on the Term Loan Maturity Date. Amounts repaid under the Term Loan Facility pursuant to this Section 4.3(a) may not be reborrowed.

(b) [Reserved].

SECTION 4.4 Prepayments of Term Loans.

(a) Optional Prepayments. The Borrower shall have the right at any time and from time to time, without premium or penalty, except as set forth in Section 5.9, to prepay the Term Loans, in whole or in part, upon delivery to the Administrative Agent of a Notice of Prepayment not later than 11:00 a.m. (i) on the same Business Day as the prepayment of each Base Rate Loan and (ii) at least three (3) RFR Business Days before each Term SOFR Loan, in each case specifying the date and amount of prepayment, whether the prepayment is of Term SOFR Loans or Base Rate Loans or a combination thereof, and if of a combination thereof, the amount allocable to each. Each optional prepayment of the Term Loans hereunder shall be in an aggregate principal amount of at least \$5,000,000 or any whole multiple of \$1,000,000 in excess thereof and shall be applied as directed by the Borrower (or in the absence of such direction, in direct order of maturity) to the outstanding principal installments of the Initial Term Loan. Each repayment shall be accompanied by any amount required to be paid pursuant to Section 5.9 hereof. A Notice of Prepayment received after 11:00 a.m. shall be deemed received on the next Business Day or RFR Business Day, as applicable. The Administrative Agent shall promptly notify the applicable Term Loan Lenders of each Notice of Prepayment. Notwithstanding the foregoing, any Notice of Prepayment delivered in connection with any refinancing of all of the Credit Facility with the proceeds of such refinancing or of any other incurrence of Indebtedness or the occurrence of some other identifiable event or condition, may be, if expressly so stated to be, contingent upon the consummation of such refinancing or incurrence or occurrence of such other identifiable event or condition and may be revoked by the Borrower in the event such contingency is not met (provided that the delay or failure of such contingency shall not relieve the Borrower from its obligations in respect thereof under Section 5.9). Any optional prepayment of the Term Loans pursuant to this Section 4.4(a) shall be applied to reduce the scheduled amortization payments on the Term Loan Facility as directed by the Borrower (or in the absence of such direction, in direct order of maturity); provided that the prepayment of the Initial Term Loans in connection with the Fourth Amendment shall not reduce the scheduled amortization payments set forth in Section 4.3(a).

(b) Mandatory Prepayments.

(i) Debt Issuances. The Borrower shall make mandatory principal prepayments of the Term Loans in the manner set forth in clause (iv) below in an amount equal to one hundred percent (100%) of the aggregate Net Cash Proceeds from any incurrence of Indebtedness by the Borrower or any of its Subsidiaries not otherwise permitted pursuant to Section 9.3. Such prepayment shall be made within three (3) Business Days after the date of receipt of the Net Cash Proceeds of any such incurrence of Indebtedness.

(ii) Dispositions and Casualty Events. The Borrower shall make mandatory principal prepayments of the Term Loans in the manner set forth in clause (vi) below in amounts

equal to one hundred percent (100%) of the aggregate Net Cash Proceeds from (A) any Disposition by the Borrower or any of its Subsidiaries (other than any Disposition permitted pursuant to, and in accordance with, Section 9.5 (excluding Section 9.5(g), (i) and (o))); provided, that, with respect to such Dispositions occurring from and after the Seventh Amendment Effective Date, no such mandatory principal prepayment shall be required unless the aggregate Net Cash Proceeds received from such Dispositions exceeds \$85,000,000 or (B) any Casualty Event. Such prepayments shall be made within three (3) Business Days after the date of receipt of the Net Cash Proceeds; provided that the Borrower shall not be required to make any such prepayment in connection with any Disposition or Casualty Event by a direct or indirect Foreign Subsidiary of the Borrower or a Domestic Subsidiary of any Foreign Subsidiary of the Borrower to the extent that and for so long as the application of such proceeds would (i) be prohibited by Applicable Law (and the Borrower hereby agrees to, and to cause the applicable Foreign Subsidiary or Domestic Subsidiary to, promptly take all actions reasonably required by Applicable Law to permit such application) or (ii) result in material adverse tax consequences to the Borrower and its Subsidiaries, as determined in good faith by the Borrower (taking into account any foreign tax credit or benefit that would be actually realized in connection with the repatriation of such funds); provided further that, so long as no Event of Default has occurred and is continuing, no prepayment shall be required under this Section 4.4(b)(ii) with respect to (x) such portion of such Net Cash Proceeds from any Casualty Event that the Borrower shall have, on or prior to such date given written notice to the Administrative Agent of its intent to reinvest in accordance with Section 4.4(b)(iii) and (y) Dispositions with aggregate Net Cash Proceeds not to exceed \$100,000,000 during the term of this Agreement, or any of its Subsidiaries reinvests in assets used or useful for the business of the Borrower or any of its Subsidiaries with the consent of Required Lenders.

(iii) Reinvestment Option. With respect to any Net Cash Proceeds realized or received with respect to any Disposition or any Casualty Event by the Borrower or any of its Subsidiaries (in each case, to the extent not excluded pursuant to Section 4.4(b)(ii)), and so long as no Event of Default has occurred and is continuing, at the option of the Borrower, the Borrower or such Subsidiary may reinvest all or any portion of such Net Cash Proceeds in assets used or useful for the business of the Borrower or any of its Subsidiaries within (x) twelve (12) months following receipt of such Net Cash Proceeds or (y) if such Credit Party enters into a binding commitment to reinvest such Net Cash Proceeds within twelve (12) months following receipt thereof, within six (6) months of the date of such binding commitment; provided that if any Net Cash Proceeds are no longer intended to be or cannot be so reinvested at any time after delivery of a notice of reinvestment election, an amount equal to any such Net Cash Proceeds shall be applied within three (3) Business Days after the Borrower or such Subsidiary reasonably determines that such Net Cash Proceeds are no longer intended to be or cannot be so reinvested to the prepayment of the Loans as set forth in this Section 4.4(b); provided further that any Net Cash Proceeds relating to a Credit Party shall be reinvested in assets of a Credit Party. Pending the final application of any such Net Cash Proceeds, the Borrower or any such Subsidiary may invest an amount equal to such Net Cash Proceeds in any manner that is not prohibited by this Agreement.

(iii) [Reserved].

(iv) Project Emerald Milestone Payments. Until the outstanding Term Loans are paid in full, the Borrower shall make mandatory principal prepayments of the Term Loans in the manner set forth in clause (vi) below in amounts equal to one hundred percent (100%) of all milestone payments received by the Borrower and its Subsidiaries pursuant to the Project Emerald Transaction within three (3) Business Days after the date of receipt of such payments.

(v) Recovery from Material Litigations. The Borrower shall make mandatory principal prepayments of the Term Loans in the manner set forth in Clause (vi) below in amounts equal to fifty percent (50%) of all Net Litigation Proceeds received by any Credit Party within three (3) Business Days after the date of receipt of such Net Litigation Proceeds.

(vi) Notice; Manner of Payment. Upon the occurrence of any event triggering the prepayment requirement under clauses (i) through (v) above, the Borrower shall promptly deliver a Notice of Prepayment to the Administrative Agent and upon receipt of such notice, the Administrative Agent shall promptly so notify the Lenders. Each prepayment of the Term Loans under this Section shall be applied, first, to the ~~next-eight (8)~~ scheduled principal repayment installments ~~thereof in directin~~ in inverse order of maturity and, thereafter, to the remaining scheduled principal payments on a pro rata basis.

(vii) Prepayment of Term SOFR Eurocurrency Rate Loans and RFR Loans. Each prepayment of Eurocurrency Rate Loans and RFR Loans shall be accompanied by any amount required to be paid pursuant to Section 5.9; provided that, so long as no Event of Default has shall have occurred and ~~is be~~ continuing, if any prepayment of Term SOFR Eurocurrency Rate Loans or RFR Loans is required to be made under this Section 4.4(b) prior to (x) with respect to Daily Simple SONIA Loans, the applicable Interest Payment Date therefor or (y) with respect to Eurocurrency Rate Loans, Term CORRA Loans or Term SOFR Loans, the last day of the Interest Period therefor, in lieu of making any payment pursuant to this Section 4.4(b) in respect of any such Daily Simple SONIA Loan prior to the applicable Interest Payment Date therefor or any such Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan prior to the last day of the Interest Period therefor, the Borrower may, in ~~is their~~ sole discretion, deposit an amount sufficient to make any such prepayment otherwise required to be made thereunder together with accrued interest to the applicable Interest Payment Date or the last day of such Interest Period, as applicable, into an account held at, and subject to the sole control of, the Administrative Agent until the last day of such Interest Period date, at which time the Administrative Agent shall be authorized (without any further action by or notice to or from the Borrower or any other Credit Party) to apply such amount to the prepayment of such Term Loans in accordance with this Section 4.4(b). Upon the occurrence and during the continuance of any Event of Default, the Administrative Agent shall also be authorized (without any further action by or notice to or from the Borrower or any other Credit Party) to apply such amount to the prepayment of the outstanding Term Loans in accordance with the relevant provisions of this Section 4.4(b).

(c) No Reborrowings. Amounts prepaid under the Term Loan Facility pursuant to this Section 4.4 may not be reborrowed.

ARTICLE V

GENERAL LOAN PROVISIONS

SECTION 5.1 Interest.

(a) Interest Rate Options. Revolving Credit Loans and Term Loans may be (i) with respect to Revolving Credit Loans ~~denominated in Dollars~~ or Term Loans ~~denominated in Dollars~~, (A) Base Rate Loans or (B) Term SOFR Loans, (ii) with respect to Revolving Credit Loans denominated in Euros, Canadian Dollars ~~or other Currencies (other than Dollars or Sterling)~~, Eurocurrency Rate, Term CORRA Loans, ~~or~~ (iii) with respect to Revolving Credit Loan Loans denominated in Euros, Eurocurrency Rate Loans or (iv) with respect to Revolving Credit Loans denominated in Sterling, Daily Simple SONIA Loans, each as further provided herein. Subject to the provisions of this Section, (x) at the election of the

Borrower (where applicable), Revolving Credit Loans and Term Loans that are (1) Base Rate Loans shall bear interest at the Base Rate plus the Applicable Margin, and (2) Term SOFR Loans shall bear interest at Adjusted Term SOFR plus the Applicable Margin, (y) at the election of the Borrower (where applicable), Revolving Credit Loans that are (1) Base Rate Loans shall bear interest at the Base Rate plus the Applicable Margin, (2) Term SOFR Loans shall bear interest at Adjusted Term SOFR plus the Applicable Margin, (3) Eurocurrency Rate Loans shall bear interest at the applicable Adjusted Eurocurrency Rate plus the Applicable Margin and, (4) Term CORRA Loans shall bear interest at Adjusted Term CORRA plus the Applicable Margin, and (5) Daily Simple SONIA Loans shall bear interest at Adjusted the applicable Daily Simple SONIA plus the Applicable Margin, (z) any Swingline Loan denominated in Dollars shall bear interest at the Base Rate plus the Applicable Margin and (2) any Swingline Loan denominated in Canadian Dollars shall bear interest at Adjusted Term CORRA for an Interest Period of one month plus the Applicable Margin (provided that none of Term SOFR, Term CORRA or the Adjusted Eurocurrency Rate shall be available until three (3) Business Days after the Closing Date unless the Borrower has delivered to the Administrative Agent a letter in form and substance reasonably satisfactory to the Administrative Agent indemnifying the Lenders in the manner set forth in Section 5.9 of this Agreement). The Borrower shall select the rate of interest and Interest Period, if any, applicable to any Loan at the time a Notice of Borrowing is given or at the time a Notice of Conversion/Continuation is given pursuant to Section 5.2.

(b) Default Rate. If any amount of the Obligations payable by the Borrower is not paid when due (subject to any applicable grace periods), whether at stated maturity, by acceleration or otherwise, then such amount shall thereafter bear interest at a fluctuating interest rate per annum at all times equal to: (i) all outstanding Eurocurrency Rate Loans, Term CORRA Loans and Term SOFR Loans shall bear interest at a rate per annum of two percent (2%) in excess of the rate (including the Applicable Margin) then applicable to Eurocurrency Rate Loans, Term CORRA or Term SOFR Loans, as applicable, until the end of the applicable Interest Period and shall automatically be converted to a Base Rate Loan denominated in Dollars (in an amount equal to the Dollar Equivalent of the applicable Alternative Currency, if applicable) at the end of the applicable Interest Period therefor and shall, as of such conversion, bear interest at a rate per annum of two percent (2%) in excess of the rate (including the Applicable Margin) then applicable to Base Rate Loans, (ii) all Daily Simple SONIA Loans shall automatically be converted to a Base Rate Loan denominated in Dollars (in an amount equal to the Dollar Equivalent of the applicable Alternative Currency, if applicable) immediately and shall, as of such conversion, bear interest at a rate per annum of two percent (2%) in excess of the rate (including the Applicable Margin) then applicable to Base Rate Loans, and (iii) all outstanding Base Rate Loans and other Obligations arising hereunder or under any other Loan Document shall bear interest at a rate per annum equal to two percent (2%) in excess of the rate (including the Applicable Margin) then applicable to Base Rate Loans or such other Obligations arising hereunder or under any other Loan Document—Such (such rate as determined under clause (i), (ii) or (iii), as applicable, “Default Rate”) and (iv) all accrued and unpaid interest shall be due and payable on demand of the Administrative Agent. Interest shall continue to accrue on the Obligations after the filing by or against the Borrower of any petition seeking any relief in bankruptcy or under any Debtor Relief Law.

(c) Interest Payment and Computation. Interest on each Loan shall be due and payable in arrears on each Interest Payment Date applicable thereto: provided that (i) in the event of any repayment or prepayment of any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, accrued interest on the principal amount repaid or prepaid shall be payable on the date of such repayment or prepayment and (ii) in the event of any conversion of any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan prior to the end of the Interest Period therefor, accrued interest on such Loan shall be payable on the effective date of such conversion. All computations of interest for Base Rate Loans shall be made on the basis of a year of 365 or 366 days, as the case may be, and actual days elapsed. All computations of interest for Daily Simple SONIA Loans shall be made on the basis of a year of 365 days

and actual days elapsed. All other computations of fees and interest provided hereunder shall be made on the basis of a 360-day year and actual days elapsed (which results in more fees or interest, as applicable, being paid than if computed on the basis of a 365/366-day year), except that interest on Loans denominated in any Alternative Currency as to which market practice differs from the foregoing shall be computed in accordance with market practice for such Loans.

(d) Maximum Rate. In no contingency or event whatsoever shall the aggregate of all amounts deemed interest under this Agreement charged or collected pursuant to the terms of this Agreement exceed the highest rate permissible under any Applicable Law which a court of competent jurisdiction shall, in a final determination, deem applicable hereto. In the event that such a court determines that the Lenders have charged or received interest hereunder in excess of the highest applicable rate, the rate in effect hereunder shall automatically be reduced to the maximum rate permitted by Applicable Law and the Lenders shall at the Administrative Agent's option (i) promptly refund to the Borrower any interest received by the Lenders in excess of the maximum lawful rate or (ii) apply such excess to the principal balance of the Obligations. It is the intent hereof that the Borrower not pay or contract to pay, and that neither the Administrative Agent nor any Lender receive or contract to receive, directly or indirectly in any manner whatsoever, interest in excess of that which may be paid by the Borrower under Applicable Law.

(e) Initial Benchmark Conforming Changes. In connection with the use or administration of any Benchmark, the Administrative Agent will have the right to make Conforming Changes from time to time and, notwithstanding anything to the contrary herein or in any other Loan Document, any amendments implementing such Conforming Changes will become effective without any further action or consent of any other party to this Agreement or any other Loan Document. The Administrative Agent will promptly notify the Borrower and the Lenders of the effectiveness of any Conforming Changes in connection with the use or administration of any Benchmark.

(f) Interest Act (Canada). For the purposes of the Interest Act (Canada), (i) whenever a rate of interest or fee rate hereunder is calculated on the basis of a year (the "deemed year") that contains fewer days than the actual number of days in the calendar year of calculation, such rate of interest or fee rate shall be expressed as a yearly rate by multiplying such rate of interest or fee rate by the actual number of days in the calendar year of calculation and dividing it by the number of days in the deemed year, (ii) the principle of deemed reinvestment of interest shall not apply to any interest calculation hereunder and (iii) the rates of interest stipulated herein are intended to be nominal rates and not effective rates or yields.

SECTION 5.2 Notice and Manner of Conversion or Continuation of Loans. Provided that no Default or Event of Default has occurred and is then continuing, the Borrower shall have the option, subject to Section 5.1(a), to (a) convert at any time, subject to the notice requirements herein, all or any portion of any outstanding Base Rate Loans (other than Swingline Loans) in a principal amount equal to \$2,000,000 or any whole multiple of \$1,000,000 in excess thereof (or such lesser amount as shall represent all of the Base Rate Loans then outstanding) into one or more Term SOFR Loans, (b) upon the expiration of any Interest Period therefor, (i) convert all or any part of any outstanding Term SOFR Loans in a principal amount equal to \$500,000 or a whole multiple of \$100,000 in excess thereof (or such lesser amount as shall represent all of the Term SOFR Loans then outstanding) into Base Rate Loans (other than Swingline Loans) or (ii) continue any Term SOFR Loans as Term SOFR Loans, (c) upon the expiration of any Interest Period therefor, continue any Term CORRA Loan as Term CORRA Loans, (d) upon expiration of any Interest Period therefor, continue any Eurocurrency Rate Loans as Eurocurrency Rate Loans and (e) in the case of a Daily Simple SONIA Loan, upon the occurrence of the Interest Payment Date therefor, continue any such Daily Simple SONIA Loans as a Daily Simple SONIA Loans. Whenever the Borrower desires to convert or continue Loans as provided above, the

Borrower shall give the Administrative Agent irrevocable prior written notice in the form attached as ***Exhibit E*** (a “Notice of Conversion/Continuation”) not later than 11:00 a.m. (i) in the case of a Loan denominated in Dollars, at least three (3) RFR Business Days before the day on which a proposed conversion or continuation of such Loan is to be effective, (ii) in the case of a Loan denominated in Sterling, at least five (5) RFR Business Days before the day on which a proposed conversion or continuation of such Loan is to be effective, and (iii) in the case of a Loan denominated in any Alternative Currency that is to be a Eurocurrency Rate Loan, at least four (4) Eurocurrency Banking Days (or five (5) Eurocurrency Banking Days in the case of a Special Notice Currency) before the day on which a proposed conversion or continuation of such Loan is to be effective, in each case, specifying (A) the Loans to be converted or continued, and, in the case of any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan to be converted or continued, the last day of the Interest Period therefor, (B) the effective date of such conversion or continuation (which shall be a Business Day), (C) the principal amount and Currency of such Loans to be converted or continued, and (D) in the case of any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, the Interest Period to be applicable to such converted or continued Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan. If the Borrower fails to deliver a timely Notice of Conversion/Continuation with respect to a Daily Simple SONIA Loan prior to the Interest Payment Date therefor, then, unless such Daily Simple SONIARFR Loan is repaid as provided herein, the Borrower shall be deemed to have selected that such Daily Simple SONIARFR Loan shall automatically be converted to a Base Rate Loan denominated in Dollars (in an amount equal to the Dollar Equivalent of the applicable Alternative Currency, if applicable) as of such Interest Payment Date. If the Borrower fails to deliver a timely Notice of Conversion/Continuation with respect to a Eurocurrency Rate Loan, Term CORRA Loan or a Term SOFR Loan prior to the end of the Interest Period therefor, then, unless such Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, as applicable, is repaid as provided herein, the Borrower shall be deemed to have selected that such Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan, as applicable, shall automatically be converted to a Base Rate Loan denominated in Dollars (in an amount equal to the Dollar Equivalent of the applicable Alternative Currency) at the end of such Interest Period. If the Borrower requests a conversion to, or continuation of, a Eurocurrency Rate Loan, Term CORRA Loan or a Term SOFR Loan, but fails to specify an Interest Period, it will be deemed to have specified an Interest Period of one month. Notwithstanding anything to the contrary herein, a Swingline Loan may not be converted to a Eurocurrency Rate Loan, Term CORRA Loan or a Term SOFR Loan. The Administrative Agent shall promptly notify the affected Lenders of such Notice of Conversion/Continuation.

SECTION 5.3 Fees

(a) **Commitment Fee.** Commencing on the Closing Date, subject to **Section 5.15(a)(iii)(A)**, the Borrower shall pay to the Administrative Agent, for the account of the Revolving Credit Lenders, a non-refundable commitment fee (the “Commitment Fee”) in Dollars at a rate per annum equal to the Applicable Margin on the average daily unused portion of the Revolving Credit Commitment of the Revolving Credit Lenders (other than the Defaulting Lenders, if any); provided, that the amount of outstanding Swingline Loans shall not be considered usage of the Revolving Credit Commitment for the purpose of calculating the Commitment Fee. The Commitment Fee shall be payable in arrears within fifteen (15) days after the last Business Day of each calendar quarter during the term of this Agreement commencing December 31, 2018 and ending on the date upon which all Obligations (other than contingent indemnification obligations not then due) arising under the Revolving Credit Facility shall have been indefeasibly and irrevocably paid and satisfied in full, all Letters of Credit have been terminated or expired and the Revolving Credit Commitment has been terminated. The Commitment Fee shall be distributed by the Administrative Agent to the Revolving Credit Lenders (other than any

Defaulting Lenders) pro rata in accordance with such Revolving Credit Lenders' respective Revolving Credit Commitment Percentages.

(b) Other Fees. The Borrower shall pay, without duplication, to the Lead Arranger and the Administrative Agent for its own respective accounts and to the Lead Arranger for the account of the Lenders fees in the amounts and at the times specified in the Engagement Letter, in the Fee Letter and in the Administrative Agent Fee Letter.

SECTION 5.4 Manner of Payment.

(a) Sharing of Payments.

(i) Except as otherwise expressly provided herein and except with respect to principal of and interest on Loans denominated in an Alternative Currency or any amounts payable in an Alternative Currency or an Alternative L/C Currency, each payment by the Borrower on account of the principal of or interest on the Loans or of any fee, commission or other amounts (including the Reimbursement Obligation) payable to the Lenders under this Agreement shall be made not later than 1:00 p.m. on the date specified for payment under this Agreement to the Administrative Agent at the Administrative Agent's Office for the account of the Lenders entitled to such payment in Dollars, in Same Day Funds and shall be made without any setoff, counterclaim or deduction whatsoever.

(ii) Except as otherwise expressly provided herein, with respect to principal of and interest on Loans denominated in an Alternative Currency or any amounts payable in an Alternative Currency or an Alternative L/C Currency, each payment by the Borrower on account of the principal of or interest on the Loans or of any fee, commission or other amounts (including the Reimbursement Obligation) payable to the Lenders under this Agreement shall be made not later than the Applicable Time specified by the Administrative Agent on the date specified for payment under this Agreement to the Administrative Agent at the applicable Administrative Agent's Office for the account of the Lenders entitled to such payment in such Alternative Currency, in Same Day Funds and shall be made without any setoff, counterclaim or deduction whatsoever.

(iii) Any payment received after such time but before 2:00 p.m. (or, with respect to a payment to be made in an Alternative Currency or an Alternative L/C Currency, the Applicable Time specified by the Administrative Agent) on such day shall be deemed a payment on such date for the purposes of Section 10.1, but for all other purposes shall be deemed to have been made on the next succeeding Business Day. Any payment received after 2:00 p.m. (or, with respect to a payment to be made in an Alternative Currency or an Alternative L/C Currency, the Applicable Time specified by the Administrative Agent) shall be deemed to have been made on the next succeeding Business Day for all purposes.

(iv) Without limiting the generality of the foregoing, the Administrative Agent may require that any payments due under this Agreement be made in the United States. If, for any reason, the Borrower is prohibited by any Applicable Law from making any required payment hereunder in an Alternative Currency or an Alternative L/C Currency, the Borrower shall make such payment in Dollars in the Dollar Equivalent of the Alternative Currency or the Alternative L/C Currency payment amount.

(v) Upon receipt by the Administrative Agent of each such payment, the Administrative Agent shall distribute to each such Lender at its address for notices set forth

herein its Commitment Percentage in respect of the relevant Credit Facility (or other applicable share as provided herein) of such payment and shall wire advice of the amount of such credit to each Lender. Each payment to the Administrative Agent on account of the principal of or interest on the Swingline Loans or of any fee, commission or other amounts payable to the Swingline Lender shall be made in like manner, but for the account of the Swingline Lender. Each payment to the Administrative Agent of any Issuing Lender's fees or L/C Participants' commissions shall be made in like manner, but for the account of such Issuing Lender or the L/C Participants, as the case may be. Each payment to the Administrative Agent of Administrative Agent's fees or expenses shall be made for the account of the Administrative Agent and any amount payable to any Lender under Sections 5.9, 5.10, 5.11 or 12.3 shall be paid to the Administrative Agent for the account of the applicable Lender. Subject to the definitions of Interest Period and Interest Payment Date, if any payment under this Agreement shall be specified to be made upon a day which is not a Business Day, it shall be made on the next succeeding day which is a Business Day and such extension of time shall in such case be included in computing any interest if payable along with such payment.

(b) Defaulting Lenders. Notwithstanding the foregoing clause (a), if there exists a Defaulting Lender each payment by the Borrower to such Defaulting Lender hereunder shall be applied in accordance with Section 5.15(a)(ii).

SECTION 5.5 Evidence of Indebtedness.

(a) Extensions of Credit. The Extensions of Credit made by each Lender and each Issuing Lender shall be evidenced by one or more accounts or records maintained by such Lender or such Issuing Lender and by the Administrative Agent in the ordinary course of business. The accounts or records maintained by the Administrative Agent and each Lender or the applicable Issuing Lender shall be conclusive absent manifest error of the amount of the Extensions of Credit made by the Lenders or such Issuing Lender to the Borrower and its Subsidiaries and the interest and payments thereon. Any failure to so record or any error in doing so shall not, however, limit or otherwise affect the obligation of the Borrower hereunder to pay any amount owing with respect to the Obligations. In the event of any conflict between the accounts and records maintained by any Lender or any Issuing Lender and the accounts and records of the Administrative Agent in respect of such matters, the accounts and records of the Administrative Agent shall control in the absence of manifest error. Upon the request of any Lender to the Borrower made through the Administrative Agent, the Borrower shall execute and deliver to such Lender (through the Administrative Agent) a Revolving Credit Note, a Term Loan Note and/or a Swingline Note, as applicable, which shall evidence such Lender's Revolving Credit Loan, Term Loans and/or Swingline Loans, as applicable, to the Borrower in addition to such accounts or records. Each Lender may attach schedules to its Notes and endorse thereon the date, amount, currency and maturity of its Loans and payments with respect thereto.

(b) Participations. In addition to the accounts and records referred to in subsection (a), each Revolving Credit Lender and the Administrative Agent shall maintain in accordance with its usual practice accounts or records evidencing the purchases and sales by such Revolving Credit Lender of participations in Letters of Credit and Swingline Loans. In the event of any conflict between the accounts and records maintained by the Administrative Agent and the accounts and records of any Revolving Credit Lender in respect of such matters, the accounts and records of the Administrative Agent shall control in the absence of manifest error.

SECTION 5.6 Sharing of Payments by Lenders. If any Lender shall, by exercising any right of setoff or counterclaim or otherwise, obtain payment in respect of any principal of or interest on any of its Loans or other obligations hereunder resulting in such Lender's receiving payment of a

proportion of the aggregate amount of its Loans and accrued interest thereon or other such obligations (other than pursuant to Sections 5.9, 5.10, 5.11 or 12.3) greater than its *pro rata* share thereof as provided herein, then the Lender receiving such greater proportion shall (a) notify the Administrative Agent of such fact, and (b) purchase (for cash at face value) participations in the Loans and such other obligations of the other Lenders, or make such other adjustments as shall be equitable, so that the benefit of all such payments shall be shared by the Lenders ratably in accordance with the aggregate amount of principal of and accrued interest on their respective Loans and other amounts owing them; provided that:

- (i) if any such participations are purchased and all or any portion of the payment giving rise thereto is recovered, such participations shall be rescinded and the purchase price restored to the extent of such recovery, without interest, and
- (ii) the provisions of this paragraph shall not be construed to apply to (A) any payment made by the Borrower pursuant to and in accordance with the express terms of this Agreement (including the application of funds arising from the existence of a Defaulting Lender), (B) the application of Cash Collateral provided for in Section 5.14 or (C) any payment obtained by a Lender as consideration for the assignment of or sale of a participation in any of its Loans or participations in Swingline Loans and Letters of Credit to any assignee or participant, other than to the Borrower or any of its Subsidiaries or Affiliates (as to which the provisions of this paragraph shall apply).

Each Credit Party consents to the foregoing and agrees, to the extent it may effectively do so under Applicable Law, that any Lender acquiring a participation pursuant to the foregoing arrangements may exercise against each Credit Party rights of setoff and counterclaim with respect to such participation as fully as if such Lender were a direct creditor of each Credit Party in the amount of such participation.

SECTION 5.7 Administrative Agent's Clawback.

(a) Funding by Lenders; Presumption by Administrative Agent. In connection with any borrowing hereunder, the Administrative Agent may assume that each Lender has made its respective share of such borrowing available on such date in accordance with Sections 2.3(b) and may, in reliance upon such assumption, make available to the Borrower a corresponding amount. In such event, if a Lender has not in fact made its share of the applicable borrowing available to the Administrative Agent, then the applicable Lender and the Borrower severally agree to pay to the Administrative Agent forthwith on demand such corresponding amount in Same Day Funds in the applicable Currency with interest thereon, for each day from and including the date such amount is made available to the Borrower to but excluding the date of payment to the Administrative Agent, at (A) in the case of a payment to be made by such Lender, the applicable Overnight Rate and (B) in the case of a payment to be made by the Borrower, the interest rate applicable to Base Rate Loans. If the Borrower and such Lender shall pay such interest to the Administrative Agent for the same or an overlapping period, the Administrative Agent shall promptly remit to the Borrower the amount of such interest paid by the Borrower for such period. If such Lender pays its share of the applicable borrowing to the Administrative Agent, then the amount so paid shall constitute such Lender's Loan included in such borrowing. Any payment by the Borrower shall be without prejudice to any claim the Borrower may have against a Lender that shall have failed to make such payment to the Administrative Agent.

(b) Payments by the Borrower; Presumptions by Administrative Agent. Unless the Administrative Agent shall have received notice from the Borrower prior to the date on which any payment is due to the Administrative Agent for the account of the Lenders, the Issuing Lenders or the Swingline Lender hereunder that the Borrower will not make such payment, the Administrative Agent may assume that the Borrower has made such payment on such date in accordance herewith and may, in

reliance upon such assumption, distribute to the Lenders, the Issuing Lenders or the Swingline Lender, as the case may be, the amount due. In such event, if the Borrower has not in fact made such payment, then each of the Lenders, each of the Issuing Lenders or the Swingline Lender, as the case maybe, severally agrees to repay to the Administrative Agent forthwith on demand the amount so distributed to such Lender, such Issuing Lender or the Swingline Lender, in Same Day Funds in the applicable Currency with interest thereon, for each day from and including the date such amount is distributed to it to but excluding the date of payment to the Administrative Agent, as the applicable Overnight Rate.

(c) Nature of Obligations of Lenders Regarding Extensions of Credit. The obligations of the Lenders under this Agreement to make the Loans, to issue or participate in Letters of Credit and to make payments under this Section, Section 5.11(e), Section 11.11, Section 12.3(c) or Section 12.7, as applicable, are several and are not joint or joint and several. The failure of any Lender to make available its Commitment Percentage of any Loan requested by the Borrower shall not relieve it or any other Lender of its obligation, if any, hereunder to make its Commitment Percentage of such Loan available on the borrowing date, but no Lender shall be responsible for the failure of any other Lender to make its Commitment Percentage of such Loan available on the borrowing date.

SECTION 5.8 Changed Circumstances.

(a) Circumstances Affecting Eurocurrency Rates and RFRs. Subject to clause (c) below, in connection with any RFR Loan or Eurocurrency Rate Loan, a request therefor, a conversion to or a continuation thereof or otherwise, if for any reason (i) the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that (x) if Adjusted Daily Simple SONIA is utilized in any calculations hereunder or under any other Loan Document with respect to any Obligations, interest, fees, commissions or other amounts, reasonable and adequate means do not exist for ascertaining Adjusted Daily Simple SONIA pursuant to the definition thereof or (y) if Adjusted Term SOFR, Adjusted Term CORRA or a Eurocurrency Rate is utilized in any calculations hereunder or under any other Loan Document with respect to any Obligations, interest, fees, commissions or other amounts, reasonable and adequate means do not exist for ascertaining Adjusted Term SOFR, Adjusted Term CORRA or such Eurocurrency Rate, as applicable, for the applicable Currency and the applicable Interest Period with respect to a proposed Term SOFR Loan, Term CORRA Loan or Eurocurrency Rate Loan, as applicable, on or prior to the first day of such Interest Period, (ii) the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that a fundamental change has occurred in the foreign exchange or interbank markets with respect to an applicable Alternative Currency (including changes in national or international financial, political or economic conditions or currency exchange rates or exchange controls), (iii) with respect to any Eurocurrency Rate Loan, the Administrative Agent shall determine (which determination shall be conclusive and binding absent manifest error) that deposits are not being offered in the applicable Currency to banks in the London or other applicable offshore interbank market for the applicable Currency, amount or Interest Period of such Eurocurrency Rate Loan, or (iv) the Required Lenders shall determine (which determination shall be conclusive and binding absent manifest error) that (x) if Daily Simple SONIA is utilized in any calculations hereunder or under any other Loan Document with respect to any Obligations, interest, fees, commissions or other amounts, Adjusted Daily Simple SONIA does not adequately and fairly reflect the cost to such Lenders of making or maintaining such Loans or (y) if Adjusted Term SOFR, Adjusted Term CORRA or a Eurocurrency Rate is utilized in any calculations hereunder or under any other Loan Document with respect to any Obligations, interest, fees, commissions or other amounts, Adjusted Term SOFR, Adjusted Term CORRA or such Eurocurrency Rate, as applicable, does not adequately and fairly reflect the cost to such Lenders of making or maintaining such Loans during the applicable Interest Period and, in the case of (x) or (y), the Required Lenders have provided notice of such determination to the Administrative Agent, then, in each case, the Administrative Agent shall promptly give notice thereof to the Borrower. Upon notice thereof by the

Administrative Agent to the Borrower, any obligation of the Lenders to make RFR Loans or Eurocurrency Rate Loans, as applicable, in each such Currency, and any right of the Borrower to convert any Loan in each such Currency (if applicable) to or continue any Loan as an RFR Loan or a Eurocurrency Rate Loan, as applicable, in each such Currency, shall be suspended (to the extent of the affected RFR Loans or Eurocurrency Rate Loans or, in the case of Term SOFR Loans, Term CORRA Loans or Eurocurrency Rate Loans, the affected Interest Periods) until the Administrative Agent (with respect to clause (iv), at the instruction of the Required Lenders) revokes such notice. Upon receipt of such notice, (A) the Borrower may revoke any pending request for a borrowing of, conversion to or continuation of RFR Loans or Eurocurrency Rate Loans in each such affected Currency (to the extent of the affected RFR Loans or Eurocurrency Rate Loans or, in the case of Term SOFR Loans, Term CORRA Loans or Eurocurrency Rate Loans, the affected Interest Periods) or, failing that, (I) in the case of any request for a borrowing of an affected Term SOFR Loan, the Borrower will be deemed to have converted any such request into a request for a borrowing of or conversion to Base Rate Loans in the amount specified therein and (II) in the case of any request for a borrowing of an affected RFR Loan or Eurocurrency Rate Loan denominated in an Alternative Currency, then such request shall be ineffective and (B)(I) any outstanding affected Term SOFR Loans will be deemed to have been converted into Base Rate Loans at the end of the applicable Interest Period and (II) any outstanding affected Loans denominated in an Alternative Currency, at the Borrower's election, shall either be converted into Base Rate Loans denominated in Dollars (in an amount equal to the Dollar Equivalent of such Alternative Currency) immediately or, in the case of Eurocurrency Rate Loans or Term CORRA Loans, at the end of the applicable Interest Period or be prepaid in full immediately or, in the case of Eurocurrency Rate Loans or Term CORRA Loans, at the end of the applicable Interest Period; provided that if no election is made by the Borrower by the date that is the earlier of (x) three (3) Business Days after receipt by the Borrower of such notice or (y) with respect to a Eurocurrency Rate Loan or Term CORRA Loan the last day of the current Interest Period, the Borrower shall be deemed to have elected clause (II) above. Upon any such prepayment or conversion, the Borrower shall also pay accrued interest (except with respect to any prepayment or conversion of a Daily Simple SONIA Loan) on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 5.9.

(b) Laws Affecting Eurocurrency Rate or RFR Availability. If, after the date hereof, the introduction of, or any change in, any Applicable Law or any change in the interpretation or administration thereof by any Governmental Authority, central bank or comparable agency charged with the interpretation or administration thereof, or compliance by any of the Lenders (or any of their respective Lending Offices) with any request or directive (whether or not having the force of law) of any such Governmental Authority, central bank or comparable agency, shall make it unlawful or impossible for any of the Lenders (or any of their respective Lending Offices) to honor its obligations hereunder to make or maintain any Daily Simple SONIA Loan, Term SOFR Loan, Term CORRA Loan or Eurocurrency Rate Loan, or to determine or charge interest based upon any applicable RFR, Daily Simple SONIA, the Term SOFR Reference Rate, Term SOFR, Adjusted Term SOFR, the Term CORRA Reference Rate, Term CORRA, Adjusted Term CORRA, the Eurocurrency Rate or the Adjusted Eurocurrency Rate, such Lender shall promptly give notice thereof to the Administrative Agent and the Administrative Agent shall promptly give notice to the Borrower and the other Lenders (an "Illegality Notice"). Thereafter, until each affected Lender notifies the Administrative Agent and the Administrative Agent notifies the Borrower that the circumstances giving rise to such determination no longer exist, (i) any obligation of the Lenders to make RFR Loans or Eurocurrency Rate Loans, as applicable, in the affected Currency or Currencies, and any right of the Borrower to convert any Loan denominated in Dollars to a Term SOFR Loan or continue any Loan as an RFR Loan or a Eurocurrency Rate Loan, as applicable, in the affected Currency or Currencies shall be suspended and (ii) if necessary to avoid such illegality, the Administrative Agent shall compute the Base Rate without reference to clause (c) of the definition of "Base Rate". Upon receipt of an Illegality Notice, the Borrower shall, if necessary to avoid such illegality, upon demand from any Lender (with a copy to the Administrative

Agent), prepay or, if applicable, (A) convert all Term SOFR Loans to Base Rate Loans or (B) convert all RFR Loans or Eurocurrency Rate Loans denominated in an affected Alternative Currency to Base Rate Loans denominated in Dollars (in an amount equal to the Dollar Equivalent of such Alternative Currency) (in each case, if necessary to avoid such illegality, the Administrative Agent shall compute the Base Rate without reference to clause (c) of the definition of "Base Rate"), (I) with respect to Daily Simple SONIA Loans, on the Interest Payment Date therefor, if all affected Lenders may lawfully continue to maintain such Daily Simple SONIA Loans to such day, or immediately, if any Lender may not lawfully continue to maintain such Daily Simple SONIA Loans to such day or (II) with respect to Eurocurrency Rate Loans, Term CORRA Loans or Term SOFR Loans, on the last day of the Interest Period therefor, if all affected Lenders may lawfully continue to maintain such Eurocurrency Rate Loans, Term Corra Loans or Term SOFR Loans, as applicable, to such day, or immediately, if any Lender may not lawfully continue to maintain such Eurocurrency Rate Loans, Term CORRA Loans or Term SOFR Loans, as applicable, to such day. Upon any such prepayment or conversion, the Borrower shall also pay accrued interest (except with respect to any prepayment or conversion of a Daily Simple SONIA Loan) on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 5.9.

| (c) Benchmark Replacement Setting.

| (i) Benchmark Replacement. Notwithstanding anything to the contrary herein or in any other Loan Document, upon the occurrence of a Benchmark Transition Event with respect to any Benchmark, the Administrative Agent and the Borrower may amend this Agreement to replace such Benchmark with a Benchmark Replacement. Any such amendment with respect to a Benchmark Transition Event will become effective at 5:00 p.m. on the fifth (5th) Business Day after the Administrative Agent has posted such proposed amendment to all affected Lenders and the Borrower so long as the Administrative Agent has not received, by such time, written notice of objection to such amendment from Lenders comprising the Required Lenders. No replacement of a Benchmark with a Benchmark Replacement pursuant to this Section 5.8(c)(i)(A) will occur prior to the applicable Benchmark Transition Start Date.

| (ii) Benchmark Replacement Conforming Changes. In connection with the use, administration, adoption or implementation of a Benchmark Replacement, the Administrative Agent will have the right to make Conforming Changes from time to time and, notwithstanding anything to the contrary herein or in any other Loan Document, any amendments implementing such Conforming Changes will become effective without any further action or consent of any other party to this Agreement or any other Loan Document.

| (iii) Notices; Standards for Decisions and Determinations. The Administrative Agent will promptly notify the Borrower and the Lenders of (A) the implementation of any Benchmark Replacement and (B) the effectiveness of any Conforming Changes in connection with the use, administration, adoption or implementation of a Benchmark Replacement. The Administrative Agent will promptly notify the Borrower of (x) the removal or reinstatement of any tenor of a Benchmark pursuant to Section 5.8(c)(iv) and (y) the commencement of any Benchmark Unavailability Period. Any determination, decision or election that may be made by the Administrative Agent or, if applicable, any Lender (or group of Lenders) pursuant to this Section 5.8(c), including any determination with respect to a tenor, rate or adjustment or of the occurrence or non-occurrence of an event, circumstance or date and any decision to take or refrain from taking any action or any selection, will be conclusive and binding absent manifest error and may be made in its or their sole discretion and without consent from any other party to

this Agreement or any other Loan Document, except, in each case, as expressly required pursuant to this Section 5.8(c).

(iv) Unavailability of Tenor of Benchmark. Notwithstanding anything to the contrary herein or in any other Loan Document, at any time (including in connection with the implementation of a Benchmark Replacement), (A) if any then-current Benchmark is a term rate (including the Term SOFR Reference Rate, EURIBOR or ~~EDOR~~^{the} Term CORRA Reference Rate) and either (1) any tenor for such Benchmark is not displayed on a screen or other information service that publishes such rate from time to time as selected by the Administrative Agent in its reasonable discretion or (2) the regulatory supervisor for the administrator of such Benchmark has provided a public statement or publication of information announcing that any tenor for such Benchmark is not or will not be representative, then the Administrative Agent may modify the definition of "Interest Period" (or any similar or analogous definition) for any Benchmark settings at or after such time to remove such unavailable or non-representative tenor and (B) if a tenor that was removed pursuant to clause (A) above either (1) is subsequently displayed on a screen or information service for a Benchmark (including a Benchmark Replacement) or (2) is not, or is no longer, subject to an announcement that it is not or will not be representative for a Benchmark (including a Benchmark Replacement), then the Administrative Agent may modify the definition of "Interest Period" (or any similar or analogous definition) for all Benchmark settings at or after such time to reinstate such previously removed tenor.

(v) Benchmark Unavailability Period. Upon the Borrower's receipt of notice of the commencement of a Benchmark Unavailability Period with respect to a given Benchmark, (A) the Borrower may revoke any pending request for a borrowing of, conversion to or continuation of RFR Loans or Eurocurrency Rate Loans, in each case, to be made, converted or continued during any Benchmark Unavailability Period denominated in the applicable Currency and, failing that, (I) in the case of any request for any affected Term SOFR Loans, if applicable, the Borrower will be deemed to have converted any such request into a request for a borrowing of or conversion to Base Rate Loans in the amount specified therein and (II) in the case of any request for any affected RFR Loan or Eurocurrency Rate Loan, in each case, in an Alternative Currency, if applicable, then such request shall be ineffective and (B)(I) any outstanding affected Term SOFR Loans, if applicable, will be deemed to have been converted into Base Rate Loans at the end of the applicable Interest Period and (II) any outstanding affected RFR Loans or Eurocurrency Rate Loans, in each case, denominated in an Alternative Currency, at the Borrower's election, shall either (1) be converted into Base Rate Loans denominated in Dollars (in an amount equal to the Dollar Equivalent of such Alternative Currency) immediately or, in the case of Eurocurrency Rate Loans or Term CORRA Loans, at the end of the applicable Interest Period or (2) be prepaid in full immediately or, in the case of Eurocurrency Rate Loans or Term CORRA Loans, at the end of the applicable Interest Period; provided that, with respect to any Daily Simple SONIA Loan, if no election is made by thesuch Borrower by the date that is three (3) Business Days after receipt by thesuch Borrower of such notice, thesuch Borrower shall be deemed to have elected clause (1) above; provided, further that, with respect to any Eurocurrency Rate Loan or Term CORRA Loan, if no election is made by thesuch Borrower by the earlier of (x) the date that is three (3) Business Days after receipt by thesuch Borrower of such notice and (y) the last day of the current Interest Period for the applicable Eurocurrency Rate Loan, the or Term CORRA Loan, such Borrower shall be deemed to have elected clause (1) above. Upon any such prepayment or conversion, the Borrower shall also pay accrued interest (except with respect to any prepayment or conversion of a Daily Simple SONIA Loan) on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 5.9. During a Benchmark Unavailability Period with respect to any Benchmark or at any

time that a tenor for any then-current Benchmark is not an Available Tenor, the component of the Base Rate based upon the then-current Benchmark that is the subject of such Benchmark Unavailability Period or such tenor for such Benchmark, as applicable, will not be used in any determination of Base Rate.

(d) Alternative Currencies and Alternative L/C Currencies. If, after the designation by the Revolving Credit Lenders of any currency as an Alternative Currency or the applicable Issuing Lender(s) of any currency as an Alternative L/C Currency, any change in currency controls or exchange regulations or any change in national or international financial, political or economic conditions are imposed in the country in which such currency is issued, and such change results in, in the reasonable opinion of the Administrative Agent (i) such currency no longer being readily available, freely transferable and convertible into Dollars, (ii) a Dollar Equivalent no longer being readily calculable with respect to such currency, (iii) such currency being impracticable for the Lenders to loan or the applicable Issuing Lender(s) to issue or extend a Letter of Credit or (iv) such currency no longer being a currency in which the Required Revolving Credit Lenders are willing to make Extensions of Credit or the applicable Issuing Lender(s) are willing to issue or extend Letters of Credit (each of clauses (i), (ii), (iii) and (iv), a "Disqualifying Event"), then the Administrative Agent shall promptly notify the Revolving Credit Lenders, the applicable Issuing Lender(s) and the Borrower, and such currency shall no longer be an Alternative Currency or an Alternative L/C Currency, as applicable, until such time as the Disqualifying Event(s) no longer exist. With respect to any applicable Revolving Credit Loans, within five (5) Business Days after receipt of such notice from the Administrative Agent, the Borrower shall repay all Revolving Credit Loans denominated in such currency to which the Disqualifying Event(s) apply or convert such Revolving Credit Loans into the Dollar Equivalent in Dollars, bearing interest at the Base Rate, subject to the other terms contained herein.

SECTION 5.9 Indemnity for Losses. TheEach Borrower hereby indemnifies each of the Lenders against any loss, cost or expense (including any loss, cost or expense arising from the liquidation or reemployment of funds or from any fees payable) which may arise, be attributable to or result due to or as a consequence of (a) any failure by the Borrower to make any payment when due of any amount due hereunder in connection with an RFR Loan or a Eurocurrency Rate Loan, (b) any failure of the Borrower to borrow or continue an RFR Loan or a Eurocurrency Rate Loan or convert to an RFR Loan or a Eurocurrency Rate Loan on a date specified therefor in a Notice of Borrowing or Notice of Conversion/Continuation, (c) any failure of the Borrower to prepay any RFR Loan or Eurocurrency Rate Loan on a date specified therefor in any Notice of Prepayment (regardless of whether any such Notice of Prepayment may be revoked under Section 2.4(c) or Section 4.4(a) and is revoked in accordance therewith), (d) any payment, prepayment or conversion of any Daily Simple SONIA Loan on a date other than on the Interest Payment Date therefor (including as a result of an Event of Default) or Term SOFR Loan, Term CORRA Loan or Eurocurrency Rate Loan on a date other than the last day of the Interest Period therefor (including as a result of an Event of Default) or (e) the assignment of any Daily Simple SONIA Loan other than on the Interest Payment Date therefor or any Eurocurrency Rate Loan, Term CORRA Loan or Term SOFR Loan other than on the last day of the Interest Period applicable thereto as a result of a request by the Borrower pursuant to Section 5.12(b). In the case of a Eurocurrency Rate Loan, the amount of such loss or expense shall be determined, in the applicable Lender's sole discretion, based upon the assumption that such Lender funded its Revolving Credit Commitment Percentage of the Eurocurrency Rate Loans in the London or other applicable offshore interbank market for such Currency, whether or not such Eurocurrency Rate Loan was in fact so funded, and using any reasonable attribution or averaging methods which such Lender deems appropriate and practical. A certificate of such Lender setting forth the basis for determining such amount or amounts necessary to compensate such Lender shall be forwarded to the Borrower through the Administrative Agent and shall be conclusively presumed to be correct save for manifest error. All of the obligations of the Credit Parties under this Section 5.9 shall survive the resignation or replacement of the Administrative Agent or any assignment of rights by,

or the replacement of, a Lender, the termination of the ~~Revolving Credit~~ Commitments and the repayment, satisfaction or discharge of all obligations under any Loan Document.

SECTION 5.10 Increased Costs.

(a) Increased Costs Generally. If any Change in Law shall:

- (i) impose, modify or deem applicable any reserve (including pursuant to regulations issued from time to time by the Board of Governors of the Federal Reserve System (or any successor) for determining the maximum reserve requirement (including any emergency, special, supplemental or other marginal reserve requirement) with respect to eurocurrency funding (currently referred to as "Eurocurrency liabilities" in Regulation D of the Board of Governors of the Federal Reserve System (or any successor), as amended and in effect from time to time)), special deposit, compulsory loan, insurance charge or similar requirement against assets of, deposits with or for the account of, or advances, loans or other credit extended or participated in by, any Lender (except any reserve requirement reflected in the Adjusted Eurocurrency Rate) or any Issuing Lender;
- (ii) subject any Recipient to any Taxes (other than (A) Indemnified Taxes, (B) Taxes described in clauses (b) through (d) of the definition of Excluded Taxes and (C) Connection Income Taxes) on its loans, loan principal, letters of credit, commitments, or other obligations, or its deposits, reserves, other liabilities or capital attributable thereto; or
- (iii) impose on any Lender or any Issuing Lender or (with respect to Eurocurrency Rate Loans) the London or other applicable offshore interbank market any other condition, cost or expense (other than Taxes) affecting this Agreement or Loans made by such Lender or any Letter of Credit or participation therein;

and the result of any of the foregoing shall be to increase the cost to such Lender, any Issuing Lender or such other Recipient of making, converting to, continuing or maintaining any Loan (or of maintaining its obligation to make any such Loan), or to increase the cost to such Lender, such Issuing Lender or such other Recipient of participating in, issuing or maintaining any Letter of Credit (or of maintaining its obligation to participate in or to issue any Letter of Credit), or to reduce the amount of any sum received or receivable by such Lender, such Issuing Lender or such other Recipient hereunder (whether of principal, interest or any other amount) then, upon written request of such Lender, such Issuing Lender or other Recipient, the Borrower shall promptly pay to any such Lender, such Issuing Lender or other Recipient, as the case may be, such additional amount or amounts as will compensate such Lender, such Issuing Lender or other Recipient, as the case may be, for such additional costs incurred or reduction suffered.

(b) Capital Requirements. If any Lender or any Issuing Lender determines that any Change in Law affecting such Lender or such Issuing Lender or any Lending Office of such Lender or such Lender's or such Issuing Lender's holding company, if any, regarding capital or liquidity requirements, has or would have the effect of reducing the rate of return on such Lender's or such Issuing Lender's capital or on the capital of such Lender's or such Issuing Lender's holding company, if any, as a consequence of this Agreement, the Revolving Credit Commitment of such Lender or the Loans made by, or participations in Letters of Credit or Swingline Loans held by, such Lender, or the Letters of Credit issued by such Issuing Lender, to a level below that which such Lender or such Issuing Lender or such Lender's or such Issuing Lender's holding company could have achieved but for such Change in Law (taking into consideration such Lender's or such Issuing Lender's policies and the policies of such Lender's or such Issuing Lender's holding company with respect to capital adequacy and liquidity), then

from time to time upon written request of such Lender or such Issuing Lender the Borrower shall promptly pay to such Lender or such Issuing Lender, as the case may be, such additional amount or amounts as will compensate such Lender or such Issuing Lender or such Lender's or such Issuing Lender's holding company for any such reduction suffered.

(c) Certificates for Reimbursement. A certificate of a Lender, or an Issuing Lender or such other Recipient setting forth the amount or amounts necessary to compensate such Lender or such Issuing Lender, such other Recipient or any of their respective holding companies, as the case may be, as specified in paragraph (a) or (b) of this Section and delivered to the Borrower, shall be conclusive absent manifest error. The Borrower shall pay such Lender or such Issuing Lender or such other Recipient, as the case may be, the amount shown as due on any such certificate within thirty (30) days after receipt thereof.

(d) Delay in Requests. Failure or delay on the part of any Lender, or any Issuing Lender or such other Recipient to demand compensation pursuant to this Section shall not constitute a waiver of such Lender's or such Issuing Lender's or such other Recipient's right to demand such compensation; provided that the Borrower shall not be required to compensate any Lender or an Issuing Lender or any other Recipient pursuant to this Section for any increased costs incurred or reductions suffered more than 180 days prior to the date that such Lender or such Issuing Lender or such other Recipient, as the case may be, notifies the Borrower of the Change in Law giving rise to such increased costs or reductions, and of such Lender's or such Issuing Lender's or such other Recipient's intention to claim compensation therefor (except that if the Change in Law giving rise to such increased costs or reductions is retroactive, then the 180-day period referred to above shall be extended to include the period of retroactive effect thereof).

(e) Additional Reserve Requirements. The Borrower shall pay to each Lender, as long as such Lender shall be required to comply with any reserve ratio requirement or analogous requirement of any central banking or financial regulatory authority imposed in respect of the maintenance of the Revolving Credit Commitment or the funding of the Eurocurrency Rate Loans, such additional costs (expressed as a percentage per annum and rounded upwards, if necessary, to the nearest five decimal places) equal to the actual costs allocated to such Revolving Credit Commitment or Eurocurrency Rate Loan by such Lender (as determined by such Lender in good faith, which determination shall be conclusive), which shall be due and payable on each date on which interest is payable on such Eurocurrency Rate Loan, provided the Borrower shall have received at least ten (10) days' prior notice (with a copy to the Administrative Agent) of such additional costs from such Lender. If a Lender fails to give notice ten (10) days prior to the relevant payment date, such additional costs shall be due and payable ten (10) days from receipt of such notice.

(f) Survival. All of the obligations of the Credit Parties under this Section 5.10 shall survive the resignation or replacement of the Administrative Agent or any assignment of rights by, or the replacement of, a Lender, the termination of the Revolving Credit Commitments and the repayment, satisfaction or discharge of all obligations under any Loan Document.

SECTION 5.11 Taxes.

(a) Defined Terms. For purposes of this Section 5.11, the term "Lender" includes any Issuing Lender and the term "Applicable Law" includes FATCA.

(b) Payments Free of Taxes. Any and all payments by or on account of any obligation of any Credit Party under any Loan Document shall be made without deduction or withholding for any Taxes, except as required by Applicable Law. If any Applicable Law (as determined in the good faith

discretion of an applicable Withholding Agent) requires the deduction or withholding of any Tax from any such payment by a Withholding Agent, then the applicable Withholding Agent shall be entitled to make such deduction or withholding and shall timely pay the full amount deducted or withheld to the relevant Governmental Authority in accordance with Applicable Law and, if such Tax is an Indemnified Tax, then the sum payable by the applicable Credit Party shall be increased as necessary so that, after such deduction or withholding has been made (including such deductions and withholdings applicable to additional sums payable under this Section), the applicable Recipient receives an amount equal to the sum it would have received had no such deduction or withholding been made.

(c) Payment of Other Taxes by the Credit Parties. The Credit Parties shall timely pay to the relevant Governmental Authority in accordance with Applicable Law, or at the option of the Administrative Agent timely reimburse it for the payment of, any Other Taxes.

(d) Indemnification by the Credit Parties. The Credit Parties shall jointly and severally indemnify each Recipient, within thirty (30) days after written demand therefor, for the full amount of any Indemnified Taxes (including Indemnified Taxes imposed or asserted on or attributable to amounts payable under this Section) payable or paid by such Recipient or required to be withheld or deducted from a payment to such Recipient and any reasonable expenses arising therefrom or with respect thereto, whether or not such Indemnified Taxes were correctly or legally imposed or asserted by the relevant Governmental Authority. A certificate as to the amount of such payment or liability delivered to the Borrower by a Recipient (with a copy to the Administrative Agent), or by the Administrative Agent on its own behalf or on behalf of a Recipient, shall be conclusive absent manifest error.

(e) Indemnification by the Lenders. Each Lender shall severally indemnify the Administrative Agent, within thirty (30) days after written demand therefor, for (i) any Indemnified Taxes attributable to such Lender (but only to the extent that any Credit Party has not already indemnified the Administrative Agent for such Indemnified Taxes and without limiting the obligation of the Credit Parties to do so), (ii) any Taxes attributable to such Lender's failure to comply with the provisions of Section 12.9(d) relating to the maintenance of a Participant Register and (iii) any Excluded Taxes attributable to such Lender, in each case, that are payable or paid by the Administrative Agent in connection with any Loan Document, and any reasonable expenses arising therefrom or with respect thereto, whether or not such Taxes were correctly or legally imposed or asserted by the relevant Governmental Authority. A certificate as to the amount of such payment or liability delivered to any Lender by the Administrative Agent shall be conclusive absent manifest error. Each Lender hereby authorizes the Administrative Agent to setoff and apply any and all amounts at any time owing to such Lender under any Loan Document or otherwise payable by the Administrative Agent to the Lender from any other source against any amount due to the Administrative Agent under this paragraph (e).

(f) Evidence of Payments. As soon as practicable after any payment of Taxes by any Credit Party to a Governmental Authority pursuant to this Section 5.11, such Credit Party shall deliver to the Administrative Agent the original or a certified copy of a receipt issued by such Governmental Authority evidencing such payment, a copy of the return reporting such payment or other evidence of such payment reasonably satisfactory to the Administrative Agent.

(g) Status of Lenders.

(i) Any Lender that is entitled to an exemption from or reduction of withholding Tax with respect to payments made under any Loan Document shall deliver to the Borrower and the Administrative Agent, at the time or times reasonably requested by the Borrower or the Administrative Agent, such properly completed and executed documentation prescribed by applicable law or the taxing authorities of a jurisdiction pursuant to such applicable law or

reasonably requested by the Borrower or the Administrative Agent as will permit such payments to be made without withholding or at a reduced rate of withholding. In addition, any Lender, if reasonably requested by the Borrower or the Administrative Agent, shall deliver such other documentation prescribed by Applicable Law or reasonably requested by the Borrower or the Administrative Agent as will enable the Borrower or the Administrative Agent to determine whether or not such Lender is subject to backup withholding or information reporting requirements. Notwithstanding anything to the contrary in the preceding two sentences, the completion, execution and submission of such documentation (other than such documentation set forth in Section 5.11(g)(ii)(A), (ii)(B) and (ii)(D) below) shall not be required if in the Lender's reasonable judgment such completion, execution or submission would subject such Lender to any material unreimbursed cost or expense or would materially prejudice the legal or commercial position of such Lender.

(ii) Without limiting the generality of the foregoing, in the event that the Borrower is a U.S. Person:

(A) Any Lender that is a U.S. Person shall deliver to the Borrower and the Administrative Agent on or prior to the date on which such Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Administrative Agent), executed copies of IRS Form W-9 certifying that such Lender is exempt from United States federal backup withholding tax;

(B) any Foreign Lender shall, to the extent it is legally entitled to do so, deliver to the Borrower and the Administrative Agent (in such number of copies as shall be requested by the recipient) on or prior to the date on which such Foreign Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Administrative Agent), whichever of the following is applicable:

(1) in the case of a Foreign Lender claiming the benefits of an income tax treaty to which the United States is a party (x) with respect to payments of interest under any Loan Document, executed copies of IRS Form W-8BEN-E establishing an exemption from, or reduction of, United States federal withholding Tax pursuant to the "interest" article of such tax treaty and (y) with respect to any other applicable payments under any Loan Document, IRS Form W-8BEN-E establishing an exemption from, or reduction of, United States federal withholding Tax pursuant to the "business profits" or "other income" article of such tax treaty;

(2) executed copies of IRS Form W-8ECI;

(3) in the case of a Foreign Lender claiming the benefits of the exemption for portfolio interest under Section 881(c) of the Code, (x) a certificate substantially in the form of **Exhibit H-1** to the effect that such Foreign Lender is not a "bank" within the meaning of Section 881(c)(3)(A) of the Code, a "10 percent shareholder" of the Borrower within the meaning of Section 881(c)(3)(B) of the Code, or a "controlled foreign corporation" described in Section 881(c)(3)(C) of the Code (a "U.S. Tax Compliance Certificate") and (y) executed copies of IRS Form W-8BEN-E; or

(4) to the extent a Foreign Lender is not the beneficial owner, executed copies of IRS Form W-8IMY, accompanied by IRS Form W-8ECI, IRS Form W-8BEN-E, a U.S. Tax Compliance Certificate substantially in the form of **Exhibit H-2** or **Exhibit H-3**, IRS Form W-9, and/or other certification documents from each beneficial owner, as applicable; provided that if the Foreign Lender is a partnership and one or more direct or indirect partners of such Foreign Lender are claiming the portfolio interest exemption, such Foreign Lender may provide a U.S. Tax Compliance Certificate substantially in the form of **Exhibit H-4** on behalf of each such direct and indirect partner;

(C) any Foreign Lender shall, to the extent it is legally entitled to do so, deliver to the Borrower and the Administrative Agent (in such number of copies as shall be requested by the recipient) on or prior to the date on which such Foreign Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Administrative Agent), executed copies of any other form prescribed by Applicable Law as a basis for claiming exemption from or a reduction in United States federal withholding Tax, duly completed, together with such supplementary documentation as may be prescribed by Applicable Law to permit the Borrower or the Administrative Agent to determine the withholding or deduction required to be made; and

(D) if a payment made to a Lender under any Loan Document would be subject to United States federal withholding Tax imposed by FATCA if such Lender were to fail to comply with the applicable reporting requirements of FATCA (including those contained in Section 1471(b) or 1472(b) of the Code, as applicable), such Lender shall deliver to the Borrower and the Administrative Agent at the time or times prescribed by law and at such time or times reasonably requested by the Borrower or the Administrative Agent such documentation prescribed by Applicable Law (including as prescribed by Section 1471(b)(3)(C)(i) of the Code) and such additional documentation reasonably requested by the Borrower or the Administrative Agent as may be necessary for the Borrower and the Administrative Agent to comply with their obligations under FATCA and to determine that such Lender has complied with such Lender's obligations under FATCA or to determine the amount to deduct and withhold from such payment. Solely for purposes of this clause (D), "FATCA" shall include any amendments made to FATCA after the date of this Agreement.

Each Lender agrees that if any form or certification it previously delivered expires or becomes obsolete or inaccurate in any respect, it shall update such form or certification or promptly notify the Borrower and the Administrative Agent in writing of its legal inability to do so.

(h) Treatment of Certain Refunds. If any party determines, in its sole discretion exercised in good faith, that it has received a refund of any Taxes as to which it has been indemnified pursuant to this Section 5.11 (including by the payment of additional amounts pursuant to this Section 5.11), it shall pay to the indemnifying party an amount equal to such refund (but only to the extent of indemnity payments made under this Section with respect to the Taxes giving rise to such refund), net of all out-of-pocket expenses (including Taxes) of such indemnified party and without interest (other than any interest paid by the relevant Governmental Authority with respect to such refund). Such indemnifying party, upon the request of such indemnified party, shall repay to such indemnified party the amount paid over pursuant to this paragraph (h) (plus any penalties, interest or other charges imposed by the relevant Governmental Authority) in the event that such indemnified party is required to repay such refund to such Governmental Authority. Notwithstanding anything to the contrary in this paragraph (h), in no event will

the indemnified party be required to pay any amount to an indemnifying party pursuant to this paragraph (h) the payment of which would place the indemnified party in a less favorable net after-Tax position than the indemnified party would have been in if the Tax subject to indemnification and giving rise to such refund had not been deducted, withheld or otherwise imposed and the indemnification payments or additional amounts with respect to such Tax had never been paid. This paragraph shall not be construed to require any indemnified party to make available its Tax returns (or any other information relating to its Taxes that it deems confidential) to the indemnifying party or any other Person.

(i) Survival. Each party's obligations under this Section 5.11 shall survive the resignation or replacement of the Administrative Agent or any assignment of rights by, or the replacement of, a Lender, the termination of the Revolving Credit Commitments and the repayment, satisfaction or discharge of all obligations under any Loan Document.

SECTION 5.12 Mitigation Obligations; Replacement of Lenders.

(a) Designation of a Different Lending Office. If any Lender requests compensation under Section 5.10, or requires the Borrower to pay any Indemnified Taxes or additional amounts to any Lender or any Governmental Authority for the account of any Lender pursuant to Section 5.11, then such Lender shall, at the request of the Borrower, use reasonable efforts to designate a different Lending Office for funding or booking its Loans hereunder or to assign its rights and obligations hereunder to another of its offices, branches or affiliates, if, in the judgment of such Lender, such designation or assignment (i) would eliminate or reduce amounts payable pursuant to Section 5.10 or Section 5.11, as the case may be, in the future and (ii) would not subject such Lender to any unreimbursed cost or expense and would not otherwise be disadvantageous to such Lender. The Borrower hereby agrees to pay all reasonable out-of-pocket costs and expenses incurred by any Lender in connection with any such designation or assignment.

(b) Replacement of Lenders. If (i) any Lender requests compensation under Section 5.10, (ii) the Borrower is required to pay any Indemnified Taxes or additional amounts to any Lender or any Governmental Authority for the account of any Lender pursuant to Section 5.11, and, in each case, such Lender has declined or is unable to designate a different Lending Office in accordance with Section 5.12(a) or (iii) if any Lender is a Defaulting Lender or a Non-Consenting Lender, then the Borrower may, at its sole expense and effort, upon notice to such Lender and the Administrative Agent, require such Lender to assign and delegate, without recourse (in accordance with and subject to the restrictions contained in, and consents required by, Section 12.9), all of its interests, rights (other than its existing rights to payments pursuant to Section 5.10 or Section 5.11) and obligations under this Agreement and the related Loan Documents to an Eligible Assignee that shall assume such obligations (which assignee may be another Lender, if a Lender accepts such assignment); provided that:

(i) the Borrower shall have paid to the Administrative Agent the assignment fee (if any) specified in Section 12.9;

(ii) such Lender shall have received payment of an amount equal to the outstanding principal of its Loans and funded participations in Letters of Credit and Swingline Loans, accrued interest thereon, accrued fees and all other amounts payable to it hereunder and under the other Loan Documents (including any amounts under Section 5.9) from the assignee (to the extent of such outstanding principal and accrued interest and fees) or the Borrower (in the case of all other amounts);

(iii) in the case of any such assignment resulting from a claim for compensation under Section 5.10 or payments required to be made pursuant to Section 5.11, such assignment will result in a reduction in such compensation or payments thereafter;

(iv) such assignment does not conflict with Applicable Law; and

(v) in the case of any assignment resulting from a Lender becoming a Non-Consenting Lender, the applicable assignee shall have consented to the applicable amendment, waiver or consent.

A Lender shall not be required to make any such assignment or delegation if, prior thereto, as a result of a waiver by such Lender or otherwise, the circumstances entitling the Borrower to require such assignment and delegation cease to apply.

(c) Selection of Lending Office. Subject to Section 5.12(a), each Lender may make any Loan to the Borrower through any Lending Office, provided that the exercise of this option shall not affect the obligations of the Borrower to repay the Loan in accordance with the terms of this Agreement or otherwise alter the rights of the parties hereto.

SECTION 5.13 [Reserved].

SECTION 5.14 Cash Collateral. At any time that there shall exist a Defaulting Lender, within one Business Day following the written request of the Administrative Agent or any Issuing Lender (with a copy to the Administrative Agent), the Borrower shall Cash Collateralize the Fronting Exposure of such Issuing Lender with respect to such Defaulting Lender (determined after giving effect to Section 5.15(a)(iv) and any Cash Collateral provided by such Defaulting Lender) in an amount not less than the Minimum Collateral Amount. In addition, if the Administrative Agent notifies the Borrower at any time that the Dollar Equivalent amount of the aggregate outstanding amount of all L/C Obligations at such time exceeds 105% of the L/C Sublimit then in effect, then, within two (2) Business Days after receipt of such notice, the Borrower shall provide Cash Collateral for the amount by which the L/C Obligations exceeds the L/C Sublimit.

(a) Grant of Security Interest. The Borrower, and to the extent provided by any Defaulting Lender, such Defaulting Lender, hereby grants to the Administrative Agent, for the benefit of each Issuing Lender, and agrees to maintain, a first priority security interest in all such Cash Collateral as security for the Defaulting Lender's obligation to fund participations in respect of L/C Obligations, to be applied pursuant to subSection (b) below. If at any time the Administrative Agent determines that Cash Collateral is subject to any right or claim of any Person other than the Administrative Agent and each Issuing Lender as herein provided, or that the total amount of such Cash Collateral is less than the Minimum Collateral Amount, the Borrower will, promptly upon demand by the Administrative Agent, pay or provide to the Administrative Agent additional Cash Collateral in an amount sufficient to eliminate such deficiency (after giving effect to any Cash Collateral provided by the Defaulting Lender).

(b) Application. Notwithstanding anything to the contrary contained in this Agreement or any other Loan Document, Cash Collateral provided under this Section 5.14 or Section 5.15 in respect of Letters of Credit shall be applied to the satisfaction of the Defaulting Lender's obligation to fund participations in respect of L/C Obligations (including, as to Cash Collateral provided by a Defaulting Lender, any interest accrued on such obligation) for which the Cash Collateral was so provided, prior to any other application of such property as may otherwise be provided for herein.

(c) Termination of Requirement. Cash Collateral (or the appropriate portion thereof) provided to reduce the Fronting Exposure of any Issuing Lender shall no longer be required to be held as Cash Collateral pursuant to this Section 5.14 following (i) the elimination of the applicable Fronting Exposure (including by the termination of Defaulting Lender status of the applicable Lender), or (ii) the determination by the Administrative Agent, the Issuing Lenders that there exists excess Cash Collateral; provided that, subject to Section 5.15, the Person providing Cash Collateral, the Issuing Lenders may agree that Cash Collateral shall be held to support future anticipated Fronting Exposure or other obligations; and provided further that to the extent that such Cash Collateral was provided by the Borrower, such Cash Collateral shall remain subject to the security interest granted pursuant to the Loan Documents.

SECTION 5.15 Defaulting Lenders.

(a) Defaulting Lender Adjustments. Notwithstanding anything to the contrary contained in this Agreement, if any Lender becomes a Defaulting Lender, then, until such time as such Lender is no longer a Defaulting Lender, to the extent permitted by Applicable Law:

(i) Waivers and Amendments. Such Defaulting Lender's right to approve or disapprove any amendment, waiver or consent with respect to this Agreement shall be restricted as set forth in the definitions of Required Lenders and Super Majority Required Lenders and Section 12.2.

(ii) Defaulting Lender Waterfall. Any payment of principal, interest, fees or other amounts received by the Administrative Agent for the account of such Defaulting Lender (whether voluntary or mandatory, at maturity, pursuant to Article X or otherwise) or received by the Administrative Agent from a Defaulting Lender pursuant to Section 12.4 shall be applied at such time or times as may be determined by the Administrative Agent as follows: *first*, to the payment of any amounts owing by such Defaulting Lender to the Administrative Agent hereunder; *second*, to the payment on a pro rata basis of any amounts owing by such Defaulting Lender to the Issuing Lenders or the Swingline Lender hereunder; *third*, to Cash Collateralize the Fronting Exposure of the Issuing Lenders and the Swingline Lender with respect to such Defaulting Lender in accordance with Section 5.14; *fourth*, as the Borrower may request (so long as no Default or Event of Default exists), to the funding of any Loan or funded participation in respect of which such Defaulting Lender has failed to fund its portion thereof as required by this Agreement, as determined by the Administrative Agent; *fifth*, if so determined by the Administrative Agent and the Borrower, to be held in a deposit account and released pro rata in order to (A) satisfy such Defaulting Lender's potential future funding obligations with respect to Loans and funded participations under this Agreement and (B) Cash Collateralize the Issuing Lenders' future Fronting Exposure with respect to such Defaulting Lender with respect to future Letters of Credit issued under this Agreement, in accordance with Section 5.14; *sixth*, to the payment of any amounts owing to the Lenders, the Issuing Lenders or the Swingline Lender as a result of any judgment of a court of competent jurisdiction obtained by any Lender, any Issuing Lender or the Swingline Lender against such Defaulting Lender as a result of such Defaulting Lender's breach of its obligations under this Agreement; *seventh*, so long as no Default or Event of Default exists, to the payment of any amounts owing to the Borrower as a result of any judgment of a court of competent jurisdiction obtained by the Borrower against such Defaulting Lender as a result of such Defaulting Lender's breach of its obligations under this Agreement; and *eighth*, to such Defaulting Lender or as otherwise directed by a court of competent jurisdiction; provided that if (1) such payment is a payment of the principal amount of any Loans or funded participations in Letters of Credit or Swingline Loans in respect of which such Defaulting Lender has not fully funded its appropriate share, and (2) such Loans were made or

the related Letters of Credit or Swingline Loans were issued at a time when the conditions set forth in Section 6.2 were satisfied or waived, such payment shall be applied solely to pay the Loans of, and funded participations in Letters of Credit or Swingline Loans owed to, all Non-Defaulting Lenders on a pro rata basis prior to being applied to the payment of any Loans of, or funded participations in Letters of Credit or Swingline Loans owed to, such Defaulting Lender until such time as all Loans and funded and unfunded participations in L/C Obligations and Swingline Loans are held by the Lenders pro rata in accordance with the Revolving Credit Commitments under the applicable Revolving Credit Facility without giving effect to Section 5.15(a)(iv). Any payments, prepayments or other amounts paid or payable to a Defaulting Lender that are applied (or held) to pay amounts owed by a Defaulting Lender or to post Cash Collateral pursuant to this Section 5.15(a)(ii) shall be deemed paid to and redirected by such Defaulting Lender, and each Lender irrevocably consents hereto.

(iii) Certain Fees.

(A) No Defaulting Lender shall be entitled to receive any Commitment Fee for any period during which that Lender is a Defaulting Lender (and the Borrower shall not be required to pay any such fee that otherwise would have been required to have been paid to that Defaulting Lender).

(B) Each Defaulting Lender shall be entitled to receive letter of credit commissions pursuant to Section 3.3 for any period during which that Lender is a Defaulting Lender only to the extent allocable to its Revolving Credit Commitment Percentage of the stated amount of Letters of Credit for which it has provided Cash Collateral pursuant to Section 5.14.

(C) With respect to any Commitment Fee or letter of credit commission not required to be paid to any Defaulting Lender pursuant to clause (A) or (B) above, the Borrower shall (1) pay to each Non-Defaulting Lender that portion of any such fee otherwise payable to such Defaulting Lender with respect to such Defaulting Lender's participation in L/C Obligations or Swingline Loans that has been reallocated to such Non-Defaulting Lender pursuant to clause (iv) below, (2) pay to each applicable Issuing Lender and Swingline Lender, as applicable, the amount of any such fee otherwise payable to such Defaulting Lender to the extent allocable to such Issuing Lender's or Swingline Lender's Fronting Exposure to such Defaulting Lender, and (3) not be required to pay the remaining amount of any such fee.

(iv) Reallocation of Participations to Reduce Fronting Exposure. All or any part of such Defaulting Lender's participation in L/C Obligations and Swingline Loans shall be reallocated among the Non-Defaulting Lenders in accordance with their respective Revolving Credit Commitment Percentages (calculated without regard to such Defaulting Lender's Revolving Credit Commitment) but only to the extent that such reallocation does not cause the aggregate Revolving Credit Exposure of any Non-Defaulting Lender to exceed such Non-Defaulting Lender's Revolving Credit Commitment. Subject to Section 12.22, no reallocation hereunder shall constitute a waiver or release of any claim of any party hereunder against a Defaulting Lender arising from that Lender having become a Defaulting Lender, including any claim of a Non-Defaulting Lender as a result of such Non-Defaulting Lender's increased exposure following such reallocation.

(v) Cash Collateral, Repayment of Swingline Loans. If the reallocation described in clause (iv) above cannot, or can only partially, be effected, the Borrower shall, without prejudice

to any right or remedy available to it hereunder or under law, (x) first, repay Swingline Loans in an amount equal to the Swingline Lenders' Fronting Exposure and (y) second, Cash Collateralize the Issuing Lenders' Fronting Exposure in accordance with the procedures set forth in Section 5.14.

(b) Defaulting Lender Cure. If the Borrower, the Administrative Agent, the Issuing Lenders and the Swingline Lender agree in writing that a Lender is no longer a Defaulting Lender, the Administrative Agent will so notify the parties hereto, whereupon as of the effective date specified in such notice and subject to any conditions set forth therein (which may include arrangements with respect to any Cash Collateral), such Lender will, to the extent applicable, purchase at par that portion of outstanding Revolving Credit Loans of the other Lenders or take such other actions as the Administrative Agent may determine to be necessary to cause the Revolving Credit Loans and funded and unfunded participations in Letters of Credit and Swingline Loans to be held pro rata by the Lenders in accordance with the Revolving Credit Commitments (without giving effect to Section 5.15(a)(iv)), whereupon such Lender will cease to be a Defaulting Lender; provided that no adjustments will be made retroactively with respect to fees accrued or payments made by or on behalf of the Borrower while that Lender was a Defaulting Lender; and provided, further, that except to the extent otherwise expressly agreed by the affected parties, no change hereunder from Defaulting Lender to Lender will constitute a waiver or release of any claim of any party hereunder arising from that Lender's having been a Defaulting Lender.

ARTICLE VI

CONDITIONS OF CLOSING AND BORROWING

SECTION 6.1 Conditions to Closing and Initial Extensions of Credit. The obligation of the Lenders to close this Agreement and to make the initial Loans or issue or participate in the initial Letter of Credit, if any, is subject to the satisfaction of each of the following conditions:

(a) Executed Loan Documents. The Administrative Agent (or its counsel) shall have received this Agreement duly executed and delivered by the Borrower and each Lender party hereto, a Revolving Credit Note duly executed and delivered by the Borrower in favor of each Revolving Credit Lender requesting a Revolving Credit Note, a Term Loan Note duly executed and delivered by the Borrower in favor of each Term Loan Lender requesting a Term Loan Note, a Swingline Note duly executed and delivered by the Borrower in favor of the Swingline Lender (in each case, if requested thereby), the Collateral Agreement duly executed and delivered by the Borrower and each Guarantor and the Guaranty Agreement duly executed and delivered by the Borrower and each Guarantor.

(b) Closing Certificates; Etc. The Administrative Agent shall have received each of the following in form and substance reasonably satisfactory to the Administrative Agent:

(i) Officer's Certificate. A certificate from a Responsible Officer of the Borrower to the effect that (A) all Specified Representations are true, correct and complete in all material respects (except to the extent any such Specified Representation is qualified by materiality or reference to Material Adverse Effect, in which case, such Specified Representation shall be true, correct and complete in all respects); (B) after giving effect to the Transactions, no Default or Event of Default under any of Sections 10.1(a) or 10.1(f) has occurred and is continuing; and (C) each of the Credit Parties, as applicable, has satisfied each of the conditions set forth in Sections 6.1(f) and (g).

(ii) Certificate of Secretary of each Credit Party. A certificate of a Responsible Officer of each Credit Party certifying as to the incumbency and genuineness of the signature of

each officer of such Credit Party executing Loan Documents to which it is a party and certifying that attached thereto is a true, correct and complete copy of (A) the Organization Documents of such Credit Party and all amendments thereto, certified as of a recent date by the appropriate Governmental Authority in its jurisdiction of incorporation, organization or formation (or equivalent), as applicable, (B) resolutions duly adopted by the board of directors (or other governing body) of such Credit Party authorizing and approving the transactions contemplated hereunder and the execution, delivery and performance of this Agreement and the other Loan Documents to which it is a party, and (C) each certificate required to be delivered pursuant to Section 6.1(b)(iii).

(iii) Certificates of Good Standing. Certificates as of a recent date of the good standing of each Credit Party under the laws of its jurisdiction of incorporation, organization or formation (or equivalent), as applicable.

(iv) Opinions of Counsel. Opinions of counsel to the Credit Parties addressed to the Administrative Agent and the Lenders with respect to the Credit Parties, the Loan Documents and such other matters as the Administrative Agent shall request (which such opinions shall expressly permit reliance by permitted successors and assigns of the Administrative Agent and the Lenders, subject to customary qualifications).

(c) Collateral.

(i) Filings and Recordings. The Administrative Agent shall have received all filings and recordations that are necessary to perfect the security interests of the Administrative Agent, on behalf of the Secured Parties, in the Collateral (to the extent required under the Collateral Agreement) and the Administrative Agent shall have received evidence reasonably satisfactory to the Administrative Agent that upon such filings and recordations such security interests constitute valid and perfected first priority Liens thereon (subject to Permitted Liens).

(ii) Lien Search. The Administrative Agent shall have received the results of a Lien search (including a search as to judgments, pending litigation, bankruptcy, tax and intellectual property matters), in form and substance reasonably satisfactory thereto, made against the Credit Parties under the Uniform Commercial Code (or applicable judicial docket) as in effect in each jurisdiction in which filings or recordations under the Uniform Commercial Code should be made to evidence or perfect security interests in all assets of such Credit Party, indicating among other things that the assets of each such Credit Party are free and clear of any Lien after giving effect to the payments pursuant to Section 6.1(f)(ii) (except for Permitted Liens).

(d) Financial Matters.

(i) Solvency Certificate. The Borrower shall have delivered to the Administrative Agent a certificate, in the form attached hereto as **Exhibit J**, and certified as accurate by the chief financial officer of the Borrower.

(ii) Financial Statements. The Administrative Agent shall have received:

(A) [reserved];

(B) [reserved]; and

(C) projections prepared by management of cash and debt balances, income statements and cash flow statements of the Borrower and its subsidiaries, on an annual basis for each fiscal year after the Closing Date through the term of the Credit Facility.

(iii) **Payment at Closing.** The Borrower shall have paid or made arrangements to pay contemporaneously with closing (A) to the Administrative Agent, the Arranger and the Lenders the fees set forth or referenced in Section 5.3 and any other accrued and unpaid fees or commissions due hereunder, (B) all reasonable fees and out-of-pocket expenses of McGuireWoods LLP, as counsel to the Administrative Agent, to the extent accrued and unpaid prior to or on the Closing Date, plus such additional amounts of such fees and expenses as shall constitute its reasonable estimate of such fees and expenses incurred or to be incurred by it through the closing proceedings and (C) to any other Person such amount as may be due thereto in connection with the transactions contemplated hereby, including all taxes, fees and other charges in connection with the execution, delivery, recording, filing and registration of any of the Loan Documents.

(e) **Miscellaneous.**

(i) **Notice of Account Designation.** The Administrative Agent shall have received a Notice of Account Designation specifying the account or accounts to which the proceeds of any Loans made on or after the Closing Date are to be disbursed.

(ii) **[Reserved].**

(iii) **PATRIOT Act, etc.**

(A) The Borrower and each of the Guarantors shall have provided to the Administrative Agent and the Lenders, at least five (5) Business Days prior to the Closing Date, the documentation and other information requested by the Administrative Agent or any Lender at least ten (10) Business Days prior to the Closing Date in order to comply with requirements of the PATRIOT Act, applicable “know your customer” and anti-money laundering rules and regulations.

(B) Each Credit Party or Subsidiary thereof that qualifies as a “legal entity customer” under the Beneficial Ownership Regulation shall have delivered to the Administrative Agent, and any Lender requesting the same, a Beneficial Ownership Certification in relation to such Credit Party or such Subsidiary, in each case at least ten (10) Business Days prior to the Closing Date that has been requested by the Administrative Agent or any Lender at least fifteen (15) Business Days prior to the Closing Date.

(iv) **Investment Policy.** The Administrative Agent shall have received a copy of the Investment Policy.

(f) **[Reserved].**

(g) **[Reserved].**

Without limiting the generality of the provisions of Section 11.3(c), for purposes of determining compliance with the conditions specified in this Section 6.1, the Administrative Agent and each Lender that has signed this Agreement shall be deemed to have consented to, approved or accepted or to be

satisfied with, each document or other matter required thereunder to be consented to or approved by or acceptable or satisfactory to a Lender unless the Administrative Agent shall have received written notice from such Lender prior to the proposed Closing Date specifying its objection thereto.

SECTION 6.2 Conditions to All Extensions of Credit. The obligations of the Lenders to make or participate in any Extensions of Credit (including the initial Extension of Credit, other than the Initial Term Loan) and/or any Issuing Lender to issue or extend any Letter of Credit are subject to the satisfaction of the following conditions precedent on the relevant borrowing, continuation, conversion, issuance or extension date:

(a) **Continuation of Representations and Warranties.** The representations and warranties contained in this Agreement and the other Loan Documents shall be true and correct in all material respects, except for any representation and warranty that is qualified by materiality or reference to Material Adverse Effect, which such representation and warranty shall be true and correct in all respects, on and as of such borrowing, continuation, conversion, issuance or extension date with the same effect as if made on and as of such date (except for any such representation and warranty that by its terms is made only as of an earlier date, which representation and warranty shall remain true and correct in all material respects as of such earlier date, except for any representation and warranty that is qualified by materiality or reference to Material Adverse Effect, which such representation and warranty shall be true and correct in all respects as of such earlier date).

(b) **No Existing Default.⁵ No Responsible Officer's Borrowing Certificate. The Borrower shall deliver a certificate of a Responsible Officer of the Borrower which (i) certifies that no Default or Event of Default shall have occurred and be continuing (iA) on the borrowing, continuation or conversion date with respect to such Loan or after giving effect to the Loans to be made, continued or converted on such date or (iiB) on the issuance or extension date with respect to such Letter of Credit or after giving effect to the issuance or extension of such Letter of Credit on such date, (ii) demonstrates compliance with the financial covenants set forth in Section 9.11 as of the last day of the applicable Measurement Period for which financial statements have been delivered pursuant to Section 8.2(a), and (iii) demonstrates compliance with Section 2.4(b)(iii).**

(c) **Notices.** The Administrative Agent or the Swingline Lender, as applicable, shall have received a Notice of Borrowing or Notice of Conversion/Continuation, as applicable, from the Borrower in accordance with Section 2.3(a) or Section 5.2, as applicable, or the applicable Issuing Lender shall have received a Letter of Credit Application from the Borrower in accordance with Section 3.2, as applicable.

(d) **New Swingline Loans/Letters of Credit.** So long as any Lender is a Defaulting Lender, (i) the Swingline Lender shall not be required to fund any Swingline Loans unless it is satisfied that it will have no Fronting Exposure after giving effect to such Swingline Loan and (ii) the Issuing Lenders shall not be required to issue, extend, renew or increase any Letter of Credit unless it is satisfied that it will have no Fronting Exposure after giving effect thereto.

⁵ Note: Required Revolving Credit Lenders consented to making further Loans or Extensions of Credit during the Forbearance Period subject to the satisfaction of all conditions in Section 6.2 other than the failure to satisfy conditions solely as a result of the occurrence of the Specified Events of Default.

ARTICLE VII

REPRESENTATIONS AND WARRANTIES OF THE CREDIT PARTIES

To induce the Administrative Agent and Lenders to enter into this Agreement and to induce the Lenders to make Extensions of Credit, the Credit Parties hereby represent and warrant to the Administrative Agent and the Lenders, which representations and warranties shall be deemed made on the Closing Date and as otherwise set forth in Section 6.2, that:

SECTION 7.1 Existence, Qualification and Power. Each Credit Party and each of its Subsidiaries (other than any Immaterial Subsidiary) (a) is duly organized or formed, validly existing and, as applicable, in good standing under the Applicable Laws of the jurisdiction of its incorporation or organization, (b) has all requisite power and authority and all requisite governmental licenses, authorizations, consents and approvals to (i) own or lease its assets and carry on its business and (ii) execute, deliver and perform its obligations under the Loan Documents to which it is a party and consummate the transactions contemplated thereby, and (c) is duly qualified and is licensed and, as applicable, in good standing under the Applicable Laws of each jurisdiction where its ownership, lease or operation of properties or the conduct of its business requires such qualification or license; except in each case referred to in clause (b)(i) or (c), to the extent that failure to do so could not reasonably be expected to have a Material Adverse Effect. No Credit Party nor any Subsidiary thereof is an Affected Financial Institution.

SECTION 7.2 Authorization; No Contravention. The execution, delivery and performance by each Credit Party of each Loan Document to which such Person is or is to be a party have been duly authorized by all necessary corporate or other organizational action, and do not and will not (a) contravene the terms of any of such Person's Organization Documents; (b) result in the imposition or the creation of any Lien (other than any Liens permitted pursuant to the terms of this Agreement) on any asset of any Credit Party or any Subsidiary of a Credit Party, (c) conflict with or result in any breach or contravention, in any material respect, of or require any material payment to be made under (i) any Contractual Obligation to which such Person is a party or affecting such Person or the properties of such Person or any of its Subsidiaries or (ii) any order, injunction, writ or decree of any Governmental Authority or any arbitral award to which such Person or its property is subject; or (d) violate any Applicable Law in any material respect.

SECTION 7.3 Governmental Authorization; Other Consents. No approval, consent, exemption, authorization, or other action by, or notice to, or filing with, any Governmental Authority or any other Person is necessary or required in connection with (a) the execution, delivery or performance by, or enforcement against, any Credit Party of this Agreement or any other Loan Document (except for filings, notices or similar actions that may be required in connection with enforcement of any security interest under Applicable Law and any approvals, consents, authorizations, actions or notices or filings with respect to the perfection of a security interest in property of any Credit Party located outside of the United States), (b) the grant by any Credit Party of the Liens granted by it pursuant to the Collateral Documents, (c) the perfection or maintenance, in all material respects, of the Liens created under the Collateral Documents (including the first priority nature thereof) (other than the filing of financing statements and delivery of any possessory Collateral as contemplated under the Loan Documents and which filings, registrations and deliveries have either (x) been made on or prior to the Closing Date or (y) are being (or, will be) made in accordance with the terms of the Loan Documents and other than any approvals, consents, authorizations, actions or notices or filings with respect to the perfection of a security interest in property of any Credit Party located outside of the United States) or (d) the exercise, in all material respects, by the Administrative Agent of its rights under the Loan Documents or the remedies in respect of the Collateral pursuant to the Collateral Documents (other than with respect to any

Collateral located outside of the United States and except for filings, notices or similar actions that may be required in connection with enforcement of any security interest under Applicable Law).

SECTION 7.4 Binding Effect. This Agreement has been, and each other Loan Document, when delivered hereunder, will have been, duly executed and delivered by each Credit Party that is party thereto. This Agreement constitutes, and each other Loan Document when so delivered will constitute, a legal, valid and binding obligation of such Credit Party, enforceable against each Credit Party that is party thereto in accordance with its terms, subject to applicable bankruptcy, insolvency, reorganization, moratorium or other laws affecting creditors' rights generally and subject to general principals of equity.

SECTION 7.5 Financial Statements; No Material Adverse Effect.

(a) The Audited Financial Statements (i) were prepared in accordance with GAAP consistently applied throughout the period covered thereby, except as otherwise expressly noted therein; (ii) fairly present the financial condition of the Borrower and its Subsidiaries, in all material respects, as of the date thereof and their results of operations for the period covered thereby in accordance with GAAP consistently applied throughout the period covered thereby, except as otherwise expressly noted therein; and (iii) show all material indebtedness and other liabilities, direct or contingent, of the Borrower and its Subsidiaries as of the date thereof, including liabilities for taxes, material commitments and Indebtedness.

(b) The unaudited consolidated balance sheets of the Borrower and its Subsidiaries dated March 31, 2018 and June 30, 2018, and the related consolidated statements of income or operations, shareholders' equity and cash flows for the fiscal quarter ended on that date (i) were prepared in accordance with GAAP consistently applied throughout the period covered thereby, except as otherwise expressly noted therein, and (ii) fairly present the financial condition of the Borrower and its Subsidiaries, in all material respects, as of the date thereof and their results of operations for the period covered thereby, subject, in the case of clauses (i) and (ii), to the absence of footnotes and to normal year-end audit adjustments.

(c) Since the date of the Audited Financial Statements, there has been no event or circumstance, either individually or in the aggregate, that has had or would reasonably be expected to have a Material Adverse Effect.

(d) The consolidated forecasted balance sheet and statements of income and cash flows of the Borrower and its Subsidiaries, delivered pursuant to Section 8.1(c) were prepared in good faith on the basis of the assumptions stated therein, which assumptions were fair in light of the conditions known to the Borrower to exist at the time of delivery of such forecasts, and represented, at the time of delivery, the Borrower's good faith estimate of its future financial condition and performance, it being understood that such forecasts are not to be viewed as facts, are subject to significant uncertainties and contingencies, that no assurance can be given that any particular forecast will be realized and that actual results may vary materially from such forecast.

SECTION 7.6 Litigation. There are no actions, suits, proceedings, claims or disputes pending or, to the knowledge of the Borrower, threatened in writing, at law, in equity, in arbitration or before any Governmental Authority, by or against the Borrower or any of its Subsidiaries or against any of their properties or revenues that (a) purport to affect or pertain to this Agreement, any other Loan Document, or the consummation of the transactions contemplated hereby or thereby, or (b) either individually or in the aggregate, if determined adversely, would reasonably be expected to have a Material Adverse Effect.

SECTION 7.7 No Default. No Default or Event of Default has occurred and is continuing.

SECTION 7.8 Ownership of Property; Liens; Investments.

(a) Each Credit Party and each of its Subsidiaries has good record and marketable title in fee simple to, or valid leasehold interests in, all real property necessary or used in the ordinary conduct of its business, except for such defects in title as would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect. Notwithstanding the foregoing or any other provision or representation contained in the Loan Documents to the contrary, the parties hereto agree that certain assets and property located on, and improvements to, certain real property necessary or used in the ordinary conduct of the business of the Borrower and its Subsidiaries may be from time to time provided by certain Governmental Authorities of the United States (such assets and other property, "Government Furnished Property") in connection with the BioThrax Contract, the AV7909 Contract and other Contractual Obligations of such Credit Parties and/or Subsidiaries with such Governmental Authorities. In some instances, such Governmental Authorities of the United States may retain an ownership interest in such Government Furnished Property. The Borrower and each other Credit Party represents and warrants to the Administrative Agent and the Lenders that such retained ownership by the Governmental Authorities of the United States in such Government Furnished Property, if any, does not in any case materially interfere with the ordinary conduct of the business of the applicable Credit Party or Subsidiary of a Credit Party thereon.

(b) Schedule 7.8(b) sets forth, as of the Closing Date, a complete and accurate list of all Liens (other than Liens permitted under Sections 9.1(a) and (c) through (n)) on the property or assets of each Credit Party and each of its Subsidiaries, showing as of the date hereof the lienholder thereof and the property or assets of such Credit Party or such Subsidiary subject thereto. The property of each Credit Party and each of its Subsidiaries is subject to no Liens, other than Liens set forth on Schedule 7.8(b), and Permitted Liens.

(c) Schedule 7.8(c) (as the same may be updated from time to time pursuant to Section 8.2(k)), sets forth a complete and accurate list of all real property owned by each Credit Party and each of its Subsidiaries, showing as of the date hereof (or such later date as such Schedule is updated (or required to be updated) pursuant to Section 8.2(k)) the street address, county or other relevant jurisdiction, state and record owner thereof. Each Credit Party and each of its Subsidiaries has good, marketable and insurable fee simple title to the real property owned by such Credit Party or such Subsidiary, free and clear of all Liens, other than Liens created or permitted by the Loan Documents, including Permitted Liens.

(d) Schedule 7.8(d) (as the same may be updated from time to time pursuant to Section 8.2(k)) sets forth a complete and accurate list of all Investments (other than Investments permitted under Sections 9.2(a) through (e) and (g) through (i)) held by any Credit Party or any Subsidiary of a Credit Party on the date hereof (or such later date as such Schedule is updated (or required to be updated) pursuant to Section 8.2(k)), showing as of the date hereof (or such later date as such Schedule is updated (or required to be updated) pursuant to Section 8.2(k)) the amount, obligor or issuer and maturity, if any, thereof.

SECTION 7.9 Environmental Compliance.

(a) Borrower and its Subsidiaries have, in the ordinary course of business, reviewed the effect of existing Environmental Laws and any claims alleging potential liability or responsibility for violation of any Environmental Law on their respective businesses, operations and properties, and as a result thereof the Borrower has reasonably concluded that liability under such Environmental Laws and

any claims could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

(b) Except as otherwise set forth in Schedule 7.9, to the knowledge of the Borrower and its Subsidiaries, none of the properties currently or formerly owned or operated by the Borrower and its Subsidiaries is listed or proposed for listing on the NPL or on the CERCLIS or any analogous foreign, state or local list or is adjacent to any such property; there are no and, to the knowledge of the Borrower and its Subsidiaries, never have been any underground or above-ground storage tanks or any surface impoundments, septic tanks, pits, sumps or lagoons in which Hazardous Materials are being or have been treated, stored or disposed on any property currently owned or operated by the Borrower and its Subsidiaries or, to the knowledge of the Borrower and its Subsidiaries, on any property formerly owned or operated by the Borrower and its Subsidiaries, except insofar as any of the foregoing have been closed or removed in compliance with Environmental Laws; to the knowledge of the Borrower and its Subsidiaries, there is no asbestos above regulated levels or asbestos-containing material as that term is defined under Environmental Laws on any property currently owned or operated by the Borrower and its Subsidiaries; and Hazardous Materials have not been released, discharged or disposed of in a manner which would require remediation or otherwise impose liability under Environmental Laws on any property currently or, to the knowledge of the Borrower and its Subsidiaries, formerly owned or operated by the Borrower and its Subsidiaries.

(c) Except as otherwise set forth on Schedule 7.9, neither the Borrower nor its Subsidiaries is undertaking, and has not completed, either individually or together with other potentially responsible parties, any investigation or assessment or remedial or response action resulting from any actual or threatened release, discharge or disposal of Hazardous Materials at any site, location or operation, either voluntarily or pursuant to the order of any Governmental Authority or the requirements of any Environmental Law, except for such actions which have been concluded in compliance with Environmental Laws; and all Hazardous Materials generated, used, treated, handled or stored at, or transported to or from, any property currently or, to the knowledge of the Borrower and its Subsidiaries, formerly owned or operated by the Borrower and its Subsidiaries have been disposed of in a manner not reasonably expected to result in material liability to the Borrower and its Subsidiaries, taken as a whole.

SECTION 7.10 Insurance. The properties of the Borrower and its Subsidiaries are insured with companies having an A.M. Best Rating of at least A- not Affiliates of the Borrower, in such amounts, with such deductibles and covering such risks as are necessary to ensure that Uninsured Liabilities of the Borrower and/or any Subsidiary are not reasonably likely to result in a Material Adverse Effect.

SECTION 7.11 Taxes. The Borrower and its Subsidiaries have filed all Federal, and all material state and other tax returns and reports required to be filed, and have paid all Federal, and all material state and Other Taxes, assessments, fees and other governmental charges levied or imposed upon them or their properties, income or assets otherwise due and payable, except those which are being contested in good faith by appropriate proceedings diligently conducted and for which adequate reserves have been provided in accordance with GAAP or to the extent the failure to do so could not reasonably be expected to have a Material Adverse Effect. There is no proposed Tax assessment against the Borrower or any Subsidiary that would, if made, have a Material Adverse Effect.

SECTION 7.12 ERISA Compliance.

(a) Each Plan is in compliance with the applicable provisions of ERISA, the Code and other Federal or state laws, except where any failure to comply would not reasonably be expected to have a Material Adverse Effect. Each Pension Plan that is intended to be a qualified plan under Section 401(a)

of the Code has received a favorable determination, opinion or advisory letter from the IRS to the effect that the form of such Plan is qualified under Section 401(a) of the Code and the trust related thereto has been determined by the Internal Revenue Service to be exempt from federal income tax under Section 501(a) of the Code. To the knowledge of the Borrower, nothing has occurred that would prevent or cause the loss of, such tax-qualified status.

(b) There are no pending or, to the knowledge of the Borrower, threatened claims, actions or lawsuits, or action by any Governmental Authority, with respect to any Plan that could reasonably be expected to have a Material Adverse Effect. There has been no prohibited transaction or violation of the fiduciary responsibility rules with respect to any Plan that has resulted or could reasonably be expected to result in a Material Adverse Effect.

(c) Except as would not reasonably be expected to have a Material Adverse Effect: (i) No ERISA Event has occurred, and neither the Borrower nor any ERISA Affiliate is aware of any fact, event or circumstance that could reasonably be expected to constitute or result in an ERISA Event with respect to any Pension Plan; (ii) the Borrower and each ERISA Affiliate has met all applicable requirements under the Pension Funding Rules in respect of each Pension Plan, and no waiver of the minimum funding standards under the Pension Funding Rules has been applied for or obtained; (iii) as of the most recent valuation date for any Pension Plan, the funding target attainment percentage (as defined in Section 430(d)(2) of the Code) is 60% or higher and neither the Borrower nor any ERISA Affiliate knows of any facts or circumstances that could reasonably be expected to cause the funding target attainment percentage for any such plan to drop below 60% as of the most recent valuation date; (iv) neither the Borrower nor any ERISA Affiliate has incurred any liability to the PBGC other than for the payment of premiums, and there are no premium payments which have become due that are unpaid; (v) neither the Borrower nor any ERISA Affiliate has engaged in a transaction that could be subject to Section 4069 or Section 4212(c) of ERISA; and (vi) no Pension Plan has been terminated by the plan administrator thereof nor by the PBGC, and no event or circumstance has occurred or exists that could reasonably be expected to cause the PBGC to institute proceedings under Title IV of ERISA to terminate any Pension Plan.

(d) With respect to each scheme or arrangement mandated by a government other than the United States (a "Foreign Government Scheme or Arrangement") and with respect to each Employee Benefit Plan maintained or contributed to by any Credit Party or any Subsidiary of any Credit Party that is not subject to United States law (a "Foreign Plan"):

(i) any employer and employee contributions required by law or by the terms of any Foreign Government Scheme or Arrangement or any Foreign Plan have been made, or, if applicable, accrued, in accordance with normal accounting practices, except as would not reasonably be expected to have a Material Adverse Effect;

(ii) the fair market value of the assets of each funded Foreign Plan, the liability of each insurer for any Foreign Plan funded through insurance or the book reserve established for any Foreign Plan, together with any accrued contributions, is sufficient to procure or provide for any accrued benefit obligations, as of the date hereof, with respect to all current and former participants in such Foreign Plan according to the actuarial assumptions and valuations most recently used to account for such obligations in accordance with applicable generally accepted accounting principles, except as would not reasonably be expected to have a Material Adverse Effect; and

(iii) each Foreign Plan required to be registered has been registered and has been maintained in good standing with applicable regulatory authorities, except as would not reasonably be expected to have a Material Adverse Effect.

(e) Neither the Borrower nor any ERISA Affiliate maintains or contributes to, or has any unsatisfied obligation to contribute to, or liability under, any active or terminated Pension Plan that would reasonably be expected to have a Material Adverse Effect.

(f) As of the Closing Date the Borrower is not nor will be using "plan assets" (within the meaning of 29 CFR § 2510.3-101, as modified by Section 3(42) of ERISA) of one or more Benefit Plans in connection with the Loans, the Letters of Credit or the Commitments.

SECTION 7.13 Subsidiaries; Equity Interests; Credit Parties. As of the Closing Date, no Credit Party has any Subsidiaries other than those specifically disclosed in Part (a) of Schedule 7.13, and all of the outstanding Equity Interests in such Subsidiaries have been validly issued, are fully paid and non-assessable (to the extent such concepts apply in such Subsidiary's jurisdiction of incorporation) and are owned by a Credit Party in the amounts specified on Part (a) of Schedule 7.13 free and clear of all Liens, except those created under the Collateral Documents. As of the Closing Date, no Credit Party has any equity investments in any other corporation or entity other than those specifically disclosed in Part (b) of Schedule 7.13. All of the outstanding Equity Interests in the Borrower have been validly issued, are fully paid and non-assessable. Set forth on Part (c) of Schedule 7.13 is a complete and accurate list of all Credit Parties, as of the Closing Date, showing as of the Closing Date (as to each Credit Party) the jurisdiction of its incorporation, the address of its principal place of business and its true and correct U.S. taxpayer identification number or, in the case of any non-U.S. Credit Party that does not have a U.S. taxpayer identification number, its true and correct unique identification number issued to it by the jurisdiction of its incorporation or formation. The copy of the charter of each Credit Party and each amendment thereto provided pursuant to Section 6.1(b)(ii) is a true and correct copy of each such document, as of the Closing Date, each of which is valid and in full force and effect.

SECTION 7.14 Margin Regulations; Investment Company Act.

(a) No Credit Party or Subsidiary is engaged nor will it engage, principally or as one of its important activities, in the business of purchasing or carrying margin stock (within the meaning of Regulation U issued by the FRB), or extending credit for the purpose of purchasing or carrying margin stock in violation of Applicable Law. Following the application of the proceeds of each Extension of Credit, not more than twenty-five percent (25%) of the value of the assets of the Borrower and its Subsidiaries on a consolidated basis subject to the provisions of Section 9.1 or Section 9.5 or subject to any restriction contained in any agreement or instrument between the Borrower and any Lender or any Affiliate of any Lender relating to Indebtedness and within the scope of Section 10.1(e) will be margin stock.

(b) None of the Borrower, any Person Controlling the Borrower, or any Subsidiary is or is required to be registered as an "investment company" under the Investment Company Act of 1940.

SECTION 7.15 Disclosure. Each Credit Party has disclosed to the Administrative Agent and the Lenders all agreements, instruments and corporate or other restrictions to which it or any of its Subsidiaries is subject, and all other matters known to it, that, individually or in the aggregate, would reasonably be expected to result in a Material Adverse Effect. No report, financial statement, certificate or other information furnished (in writing) by or on behalf of any Credit Party to the Administrative Agent or any Lender in connection with the negotiation of this Agreement and any other Loan Document (taken as a whole with any other information so furnished) contains any material misstatement of fact or

omits to state any material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading; provided that, with respect to projected financial information or forecasts, the Borrower represents only that such information was prepared in good faith based upon assumptions believed to be reasonable at the time, it being understood that such projected financial information and forecasts are not to be viewed as facts, are subject to significant uncertainties and contingencies, that no assurance can be given that any particular projected financial information or forecast will be realized and that actual results may vary materially from such projection or forecast. As of the Closing Date, to the extent applicable, all of the information included in the Beneficial Ownership Certification is true and correct.

SECTION 7.16 Compliance with Laws.

(a) Each Credit Party and each Subsidiary thereof is in compliance in all material respects with the requirements of all Applicable Laws and all orders, writs, injunctions and decrees applicable to it or to its properties, except in such instances in which (a) such requirement of Applicable Law or order, writ, injunction or decree is being contested in good faith by appropriate proceedings diligently conducted or (b) the failure to comply therewith, either individually or in the aggregate, would not reasonably be expected to have a Material Adverse Effect.

(b) To the knowledge of the Borrower, no circumstance exists and no event has occurred that (with or without notice or lapse of time) may give rise to any obligation on the part of any Credit Party to undertake, or to bear all or any portion of the cost of, any remedial corrective action of any nature with respect to any product developed, produced, manufactured, tested, packaged, labeled, marketed, sold, and/or distributed by a Credit Party or any of its Subsidiaries, which obligations if incurred would reasonably be expected to have a Material Adverse Effect.

(c) Each product that is developed, produced, manufactured, tested, packaged, labeled, marketed, sold, and/or distributed by a Credit Party or any of its Subsidiaries that is subject to the Federal Food, Drug and Cosmetic Act (the "FFDCA"), the FDA regulations promulgated thereunder, or similar Applicable Law, is being developed, produced, tested, packaged, labeled, marketed, sold, and/or distributed in compliance in all material respects with all Applicable Laws under the FFDCA or similar Applicable Laws, including those relating to the importation of FDA-regulated products, current good manufacturing practices (cGMPs), and corresponding facility registration, recall, recordkeeping, and reporting obligations, and is not adulterated or misbranded within the meaning of the FFDCA.

(d) No Credit Party, no Subsidiary of any Credit Party nor, to any Credit Party's knowledge, any officer or employee of any of them currently is, or has been, convicted of any crime or engaged in any conduct for which debarment is mandated by 21 U.S.C. § 335a(a) or any similar Applicable Law or authorized by 21 U.S.C. § 335a(b) or has been charged with or convicted under any Applicable Law relating to the development or approval of products subject to regulation by the FDA (or similar or analogous foreign, state or local Governmental Authority), or otherwise relating to the regulation of any product that is developed, produced, manufactured, tested, packaged, labeled, marketed, sold, and/or distributed by a Credit Party or any of its Subsidiaries.

(e) No product that is developed, produced, manufactured, tested, packaged, labeled, marketed, sold, and/or distributed by a Credit Party or any of its Subsidiaries has been recalled directly or indirectly by a Credit Party or any of its Subsidiaries or any Governmental Authority or involuntarily withdrawn, suspended, or discontinued, except to the extent that any such recall, withdrawal, suspension or discontinuance would not reasonably be expected to have a Material Adverse Effect. No Credit Party has been notified in writing of any action, arbitration, non-routine audit, hearing, investigation, litigation, suit (whether civil, criminal, administrative, investigative, or informal) or claim commenced, brought,

conducted, or heard by or before, or otherwise involving, any Governmental Authority (whether completed or pending) seeking the voluntary or other recall, withdrawal, suspension, or seizure of any such product that is developed, produced, manufactured, tested, packaged, labeled, marketed, sold, and/or distributed by a Credit Party or any of its Subsidiaries that (x) in the case of the BioThrax Contract and the AV7909 Contract, would reasonably be expected to result in a Default pursuant to Section 10.1(m) and (y) in each other case, would reasonably be expected to have a Material Adverse Effect.

(f) Neither the Borrower nor any of its Subsidiaries has received (a) any so called "Warning Letters" or "Untitled Letters" from the FDA (or similar or analogous foreign, state or local Governmental Authority) for which the Borrower or such Subsidiary has not provided a response or which has not otherwise been satisfied to Borrower's knowledge, or (b) any (i) citation, suspension, revocation, limitation, warning, audit finding, request or communication issued by a Governmental Authority that has not been resolved to the applicable Governmental Authority's satisfaction to Borrower's knowledge or (ii) notification in writing from any Governmental Authority regarding (x) any actual, alleged, possible, or potential violation of, or failure to comply with, any Applicable Law, or (y) any actual, alleged, possible, or potential obligation on the part of any such Person to undertake, or to bear all or any portion of the cost of, any remedial action of any nature, in each case of any citation, notification, limitation, warning, audit finding, request or communication received under this clause (b), which would reasonably be expected to have a Material Adverse Effect.

(g) Each Credit Party and each of its Subsidiaries have filed all material reports, documents, applications, notices and copies of any contracts required by any Applicable Laws to be filed or furnished to any Governmental Authority. All such reports, documents, applications, notices and contracts were complete and correct in all material respects on the date filed (or were corrected in or supplemented by a subsequent filing such that no material liability exists in respect of the Borrower and its Subsidiaries with respect to such filings).

(h) Neither any Credit Party nor any Subsidiary of any Credit Party nor any Principal (as defined in Federal Acquisition Regulation 52.209-5) presently is suspended or debarred from bidding on contracts or subcontracts for or with any Governmental Authority. No Credit Party has received written notification of any suspension or debarment actions with respect to any government contract currently have been commenced or threatened in writing against any Credit Party or any Subsidiary of any Credit Party or any of their respective Related Parties.

(i) Each Credit Party and each Subsidiary of any Credit Party, in each case, that is party to a contract with the Federal Government of the United States has an ethics and compliance program that complies with the requirements of Federal Acquisition Regulation Subpart 3.10 and FAR 52.203-13.

SECTION 7.17 Intellectual Property; Licenses, Etc. Each Credit Party and each of its Subsidiaries own, or possess the right to use, all of the trademarks, service marks, trade names, copyrights, patents, patent rights, franchises, licenses and other intellectual property rights (collectively, "IP Rights") that are reasonably necessary for the operation of their respective businesses, without conflict in any material respects with the rights of any other Person. To the knowledge of the Borrower, no slogan or other advertising device, product, process, method, substance, part or other material employed by any Credit Party or any of its Subsidiaries infringes in any material respect upon any rights held by any other Person. No claim or litigation regarding any of the foregoing is pending or threatened in writing, which, either individually or in the aggregate, would reasonably be expected to have a Material Adverse Effect.

SECTION 7.18 Anti-Corruption Laws; Anti-Money Laundering Laws and Sanctions.

(a) None of (i) the Borrower, any Subsidiary or, to the knowledge of the Borrower or such Subsidiary, any of their respective directors, officers, employees or Affiliates, or (ii) to the knowledge of the Borrower, any agent or representative of the Borrower or any Subsidiary that will act in any capacity in connection with or benefit from the Credit Facility established hereby, (A) is a Sanctioned Person or currently the subject or target of any Sanctions, (B) has its assets located in a Sanctioned Country, except to the extent licensed or otherwise approved or not prohibited by the applicable authority imposing such Sanctions, (C) is under administrative, civil or criminal investigation for an alleged material violation of, or received notice from or made a voluntary disclosure to any governmental entity regarding a possible material violation of, Anti-Corruption Laws, Anti-Money Laundering Laws or Sanctions by a governmental authority that enforces Sanctions or any Anti-Corruption Laws or Anti-Money Laundering Laws, or (D) directly or indirectly derives revenues from investments in, or transactions with, Sanctioned Persons, except to the extent licensed or otherwise approved or not prohibited by the applicable authority imposing such Sanctions.

(b) Each of the Borrower and its Subsidiaries has implemented and maintains in effect policies and procedures designed to ensure compliance by the Borrower and its Subsidiaries and their respective directors, officers, employees, agents and Affiliates with all Anti-Corruption Laws, Anti-Money Laundering Laws and applicable Sanctions.

(c) Each of the Borrower and its Subsidiaries, each director, officer and to the knowledge of Borrower, each employee, agent and Affiliate of the Borrower and each such Subsidiary, is in compliance with all Anti-Corruption Laws, Anti-Money Laundering Laws and applicable Sanctions in all material respects.

(d) No proceeds of any Extension of Credit have been or will be used, directly or indirectly, by the Borrower, any of its Subsidiaries or any of its or their respective directors, officers, employees and agents in violation of Section 9.16.

SECTION 7.19 Solvency. The Borrower and its Subsidiaries, on a Consolidated basis, are Solvent.

SECTION 7.20 Casualty, Etc. Neither the businesses nor the properties of any Credit Party or any of its Subsidiaries are affected by any fire, explosion, accident, strike, lockout or other labor dispute, drought, storm, hail, earthquake, embargo, act of God or of the public enemy or other casualty (whether or not covered by insurance) that, either individually or in the aggregate, would reasonably be expected to have a Material Adverse Effect.

SECTION 7.21 Collateral Documents. The provisions of the Collateral Documents are effective to create in favor of the Administrative Agent for the benefit of the Secured Parties a legal, valid and enforceable first priority Lien (subject to Permitted Liens) on all right, title and interest of the respective Credit Parties in the Collateral described therein. Except for filings completed prior to the Closing Date and as contemplated hereby and by the Collateral Documents, no filing or other action will be necessary to perfect or protect such Liens.

SECTION 7.22 Material Contracts.

(a) To the best of the knowledge of the Borrower and the other Credit Parties that are party to a Material Contract, each Material Contract is in full force and effect in all material respects.

(b) No Credit Party nor any of its Subsidiaries has, directly or indirectly, paid or delivered any material fee, commission or other sum of money or remuneration, however characterized, to any Governmental Authority or any other Person which in any manner is related to any Material Contract of any Credit Party or any of its Subsidiaries and which is illegal under any Applicable Law.

(c) (i) No termination for convenience, termination for default, notice of non-renewal, notice of material non-compliance or default, cure notice or show cause notice has been issued to any Credit Party or any Subsidiary of any Credit Party or any predecessor of any of the foregoing and remains unresolved and (ii) no Credit Party nor any of its Subsidiaries aware of any failure by such Person to comply with any term or provision of any Material Contract that would be the basis for a termination for default, notice of material non-compliance or default, cure notice or show cause notice, in each case, would reasonably be expected to have a Material Adverse Effect.

(d) No material amount due to any Credit Party or any Subsidiary of any Credit Party or any predecessor of any of the foregoing has been withheld or set off by or on behalf of a Governmental Authority, or prime contractor or subcontractor (at any tier) in each case with respect to any Material Contract.

(e) No Credit Party nor any Subsidiary of any Credit Party nor any Related Parties of any of the foregoing (i) is under any administrative, civil or criminal investigation or indictment by any Governmental Authority, nor subject to any non-routine audit, whether pending, completed or threatened, relating to the performance or administration of any Material Contract by a Credit Party nor a Subsidiary of a Credit Party or (ii) has made, nor has been required to make, any disclosure to any Governmental Authority with respect to any material alleged irregularity, misstatement or omission under or relating to any Material Contract (or bid with respect thereto).

(f) With respect to any Material Contract to which any Governmental Authority is a counterparty:

(i) such Material Contract was legally awarded and no Credit Party nor any Subsidiary of any Credit Party has received any notice in writing that any Material Contract (or any bid in respect thereof) is the subject of any pending bid or award protest proceedings;

(ii) each Credit Party and each Subsidiary is in material compliance with all applicable statutory and regulatory requirements pertaining to each of its Material Contracts and bids related thereto, including to the extent applicable, (a) the Procurement Integrity Act (41 U.S.C. §§ 2101-2107) and its implementing regulations including Federal Acquisition Regulation 3.104; (b) the Anti-Kickback Act (41 U.S.C. §§ 8701-8707) and implementing regulations including the associated regulations set forth in Federal Acquisition Regulation 3.502; (c) the Federal Health Care Anti-Kickback Statute, 42 U.S.C. § 1320a-7b(b); (d) the prohibitions on bribery and gratuities set forth in 18 U.S.C. § 201 and the associated regulations at Federal Acquisition Regulation Subpart 3.2 and Federal Acquisition Regulation 52.203-3; (e) the Truth in Negotiations Act, 41 U.S.C. §§ 3501-3509; (f) the independent pricing requirements at Federal Acquisition Regulation 3.103; and (g) the limitations on the payments of funds to influence federal transactions, as set forth in 31 U.S.C. § 1352 and the associated regulations at Federal Acquisition Regulation Subpart 3.8 and Federal Acquisition Regulation 52.203-11; and

(iii) no Credit Party nor any Subsidiary of any Credit Party has made any mandatory disclosure under Federal Acquisition Regulation 52.203-13(b)(3)(i) or any voluntary disclosure to any Governmental Authority with respect to any alleged unlawful conduct, misstatement, significant overpayment under a Material Contract, or omission arising under or related to any

Material Contract (or bid in respect thereof), and there are no facts that would require mandatory disclosure under Federal Acquisition Regulation 52.203-13(b)(3)(i).

ARTICLE VIII

AFFIRMATIVE COVENANTS

Until all of the Obligations (other than contingent indemnification obligations not then due) have been paid and satisfied in full in cash, all Letters of Credit have been terminated or expired (or been Cash Collateralized) and the Revolving Credit Commitments terminated, each Credit Party will, and will cause each of its Subsidiaries to:

SECTION 8.1 Financial Statements and Budgets. Deliver to the Administrative Agent, in form and detail reasonably satisfactory to the Administrative Agent (which shall promptly make such information available to the Lenders in accordance with its customary practice):

(a) Unaudited Annual Financial Statements. As soon as available, but in any event within forty (40) days after the end of each fiscal year of the Borrower, a consolidated balance sheet of the Borrower and its Subsidiaries as at the end of such fiscal year, and the related consolidated statements of income or operations, changes in shareholders' equity, and cash flows for such fiscal year, including detail showing revenue by product type, setting forth in each case in comparative form the figures for the previous fiscal year, all in reasonable detail, certified by the chief executive officer, chief financial officer, treasurer, assistant treasurer or controller of the Borrower as fairly presenting the financial condition, results of operations, and cash flows of the Borrower and its Subsidiaries, on a Consolidated basis, in accordance with GAAP, subject only to normal year-end audit adjustments and the absence of footnotes.

(b) (a) Audited Annual Financial Statements. As soon as available, but in any event within ninety (90) days after the end of each fiscal year of the Borrower (commencing with the fiscal year ended December 31, 2018), a consolidated balance sheet of the Borrower and its Subsidiaries as at the end of such fiscal year, and the related consolidated statements of income or operations, changes in shareholders' equity, and cash flows for such fiscal year, including detail showing revenue by product type, setting forth in each case in comparative form the figures for the previous fiscal year, all in reasonable detail and prepared in accordance with GAAP, audited and accompanied by a report of an independent certified public accountant of nationally recognized standing, which report shall be prepared in accordance with generally accepted auditing standards and shall not be subject to any "going concern" or like qualification or exception or any qualification or exception as to the scope of such audit.

(c) (b) Quarterly Financial Statements. As soon as available, but in any event within forty-five forty (4540) days after the end of each of the first three (3) fiscal quarters of each fiscal year of the Borrower (commencing with the fiscal quarter ended March 31, 2019), a consolidated balance sheet of the Borrower and its Subsidiaries as at the end of such fiscal quarter, the related consolidated statements of income or operations for such fiscal quarter or for the portion of the Borrower's fiscal year then ended, and the related consolidated statements of cash flows for the portion of the Borrower's fiscal year then ended, including detail showing revenue by product type, in each case setting forth in comparative form, as applicable, the figures for the corresponding fiscal quarter of the previous fiscal year and the corresponding portion of the previous fiscal year, all in reasonable detail, certified by the chief executive officer, chief financial officer, treasurer, assistant treasurer or controller of the Borrower as fairly presenting the financial condition, results of operations, and cash flows of the Borrower and its

Subsidiaries, on a Consolidated basis, in accordance with GAAP, subject only to normal year-end audit adjustments and the absence of footnotes.

(d) (e) Annual Business Plan and Budget. As soon as available, but in any event within forty-five (45) days after the beginning of each fiscal year of the Borrower, an annual business plan and budget of the Borrower and its Subsidiaries on a consolidated basis for such fiscal year prepared by management, in form reasonably satisfactory to the Administrative Agent, provided, that the annual business plan and budget for the 2025 fiscal year shall be delivered on or before September 1, 2024.

(e) (d) Additional Financial Statements. As soon as available, but in any event within forty-five (45) days after the end of the fiscal quarter ended September 30, 2018, a consolidated balance sheet of the Borrower and its Subsidiaries as at the end of such fiscal quarter, the related consolidated statements of income or operations for such fiscal quarter or for the portion of the Borrower's fiscal year then ended, and the related consolidated statements of cash flows for the portion of the Borrower's fiscal year then ended, in each case setting forth in comparative form, as applicable, the figures for the corresponding fiscal quarter of the previous fiscal year and the corresponding portion of the previous fiscal year, all in reasonable detail, certified by the chief executive officer, chief financial officer, treasurer, assistant treasurer or controller of the Borrower as fairly presenting the financial condition, results of operations, and cash flows of the Borrower and its Subsidiaries, on a Consolidated basis, in accordance with GAAP, subject only to normal year-end audit adjustments and the absence of footnotes.

(f) (e) Monthly Financial Statements. Within thirty (30) days after the end of each of the first two (2) calendar months of each fiscal quarter of the Borrower, a consolidated balance sheet of the Borrower and its Subsidiaries as at the end of such month, related consolidated statements of income or operations, and the related consolidated statements of cash flows, including detail showing revenue by product type, and, commencing with the financial statements delivered with respect to the month ending on May 31, 2024, in each case setting forth in comparative form, as applicable, the figures for the corresponding month of the previous fiscal year.

(g) (f) Cash Flow Projections. On March 7, 2024, and on the fourth Business Day of each week thereafter, a thirteen-week cash flow projection of the Borrower and its Subsidiaries substantially in the same form delivered in connection with the closing of the Fourth Amendment; provided that, to the extent ~~the~~ any TSA is in effect, cash on deposit in accounts held in connection with collecting accounts receivable and processing accounts payable pursuant to the ~~Project Emerald Transaction~~ applicable sale transaction shall be excluded from such thirteen-week cash flow projection.

SECTION 8.2 Certificates; Other Reports. Deliver to the Administrative Agent (which shall promptly make such information available to the Lenders in accordance with its customary practice) or agree to participate in conferences described below, as applicable:

(a) concurrently with the delivery of the financial statements referred to in Sections 8.1(a), (b) and (e), a duly completed Compliance Certificate signed by the chief executive officer, chief financial officer, treasurer, assistant treasurer or controller of the Borrower (which delivery may, unless the Administrative Agent or a Lender requests executed originals, be by electronic communication including fax or email and shall be deemed to be an original authentic counterpart thereof for all purposes thereof), that, among other things, (i) states that no Default or Event of Default is continuing as of the date of delivery of such Compliance Certificate or, if a Default or Event of Default is continuing, states the nature thereof and the action that the Borrower proposes to take with respect thereto, (ii) demonstrates compliance with the financial covenants set forth in Section 9.11 as of the last day of the applicable Measurement Period ending on the last day of the Measurement Period covered by such financial statements, (iii) demonstrates the calculation of Immaterial Subsidiaries and compliance with Section 8.12(b) and (iv) in the event of any change in generally accepted accounting principles used in

the preparation of such financial statements, the Borrower shall also provide, if necessary for the determination of compliance with Section 9.11, a statement of reconciliation conforming such financial statements to GAAP to the extent required by Section 1.3(b);

(b) promptly after any request by the Administrative Agent or any Lender, copies of any detailed audit reports, final management letters submitted to the board of directors (or the audit committee of the board of directors) of any Credit Party by independent accountants in connection with the accounts or books of any Credit Party or any of its Subsidiaries, or any audit of any of them;

(c) promptly after the same are available, copies of each annual report, proxy or financial statement or other material report or communication sent to the stockholders of the Borrower, and copies of all annual, regular, periodic and special reports and registration statements (other than amendments to any registration statement (to the extent such registration statement, in the form it becomes effective, is delivered to the Administrative Agent)) which the Borrower may file or be required to file with the SEC under Section 13 or 15(d) of the Securities Exchange Act of 1934;

(d) promptly after the furnishing thereof, copies of any statement or report furnished to any holder of publicly-issued debt securities (other than the Obligations) of any Credit Party or any Subsidiary thereof pursuant to the terms of any indenture, loan or credit or similar agreement and not otherwise required to be furnished to the Administrative Agent pursuant to any other clause of this Section 8.2;

(e) as soon as available, but in any event within sixty (60) days after the end of each fiscal year of the Borrower, a report summarizing the insurance coverage (specifying type, amount and carrier) in effect for each Credit Party and its Subsidiaries and containing such additional information as the Administrative Agent, or any Lender through the Administrative Agent, may reasonably specify;

(f) promptly, and in any event within five (5) Business Days after receipt thereof by any Credit Party or any Subsidiary thereof, copies each notice of a non-routine nature received from the SEC (or comparable agency in any applicable non-U.S. jurisdiction) concerning any investigation or possible investigation or other inquiry by such agency regarding financial or other operational results of any Credit Party or any Subsidiary thereof;

(g) promptly after the assertion or occurrence thereof, notice of any action or proceeding against or of any noncompliance by any Credit Party or any of its Subsidiaries with any Environmental Law or Environmental Permit that would reasonably be expected to have a Material Adverse Effect;

(h) promptly after occurrence thereof or after the Borrower or applicable Subsidiary's receipt thereof, as applicable, copies of any notice of default, notice of termination or termination, non-routine audit or investigation under any Material Contract;

(i) [reserved];

(j) promptly after occurrence thereof, copies of any material amendment or material modification to the Borrower's Investment Policy (as determined by the Borrower in good faith);

(k) as soon as available, but in any event within sixty (60) days after the end of each fiscal year of the Borrower, (i) a report supplementing Schedules 7.8(c) and 7.8(d), including an identification of all owned and leased real property disposed of by any Credit Party or any Subsidiary thereof during such fiscal year, a list and description (including the street address, county or other relevant jurisdiction, state, record owner and, in the case of leases of property, lessor, lessee, and lease expiration date) of all

real property acquired or leased during such fiscal year and a description of such other changes in the information included in such Schedules as may be necessary for such Schedules to be accurate and complete as of the last day of the applicable fiscal year; and (ii) a report supplementing Schedule 7.13 containing a description of all changes in the information included in such Schedules as may be necessary for such Schedules to be accurate and complete as of the date the last day of the applicable fiscal year, each such report to be signed by a Responsible Officer of the Borrower and to be in a form reasonably satisfactory to the Administrative Agent;

(l) promptly upon the request thereof, such other information and documentation required by bank regulatory authorities under applicable Anti-Money Laundering Laws (including, without limitation, any applicable “know your customer” rules and regulations and the PATRIOT Act), as from time to time reasonably requested by the Administrative Agent or any Lender; and

(m) promptly, such additional information regarding the business, financial, legal or corporate affairs of any Credit Party or any Subsidiary thereof, or compliance with the terms of the Loan Documents, as the Administrative Agent or any Lender may from time to time reasonably request; ;

(n) once each week (at a time to be mutually agreed and which may be waived by the Administrative Agent), the Credit Parties shall cause advisors to the Credit Parties to host a conference call with the Administrative Agent and its advisors to discuss, among other things, updates on sale processes, updates on restructuring efforts, financial operations and performance of the Credit Parties' business, cash flows, capital raise efforts, regulatory matters, and such other business matters relating to the Credit Parties as the Administrative Agent may reasonably request;

(o) every other month (at a time to be mutually agreed and which may be waived by the Administrative Agent) and, in addition, upon reasonable request by the Administrative Agent, the Credit Parties shall cause advisors to the Credit Parties to host a conference call or videoconference (at a time to be mutually agreed) with the Administrative Agent, the Administrative Agent's advisors, and the Lenders, to present and discuss updates on sale processes and restructuring efforts; and

(p) within sixty (60) days after the Seventh Amendment Effective Date, detail supporting cost reductions set forth in the annual business plan and budget delivered by the Borrower pursuant to Section 4(e) of the Forbearance Agreement and Sixth Amendment.

Documents required to be delivered pursuant to Section 8.1(a), (b) or (d) or Section 8.2(c) or (d) may be delivered electronically and if so delivered, shall be deemed to have been delivered on the date (i) on which the Borrower posts such documents, or provides link thereto on the Borrower's website on the Internet at the website address listed in Section 12.1; or (ii) on which such documents are posted on the Borrower's behalf on an Internet or intranet website, if any, to which each Lender and the Administrative Agent have access (whether a commercial, third-party website or whether sponsored by the Administrative Agent). Notwithstanding anything to the contrary herein, any financial statements, annual reports, proxy statements, documents or other information required to be delivered pursuant to Section 8.1(a), (b) or (d) or Section 8.2(c) or (d) shall be satisfied if such financial statements, annual reports, proxy statements, documents or other information are made publicly available on the SEC's EDGAR website and shall be deemed to have been delivered on the date of filing on the SEC's EDGAR website. The Administrative Agent shall have no obligation to request the delivery or, except for such Compliance Certificates, to maintain copies of the documents referred to above, and in any event shall have no responsibility to monitor compliance by the Borrower with any such request for delivery, and each Lender shall be solely responsible for requesting delivery to it or maintaining its copies of such documents.

The Borrower hereby acknowledges that (a) the Administrative Agent and/or the Arranger will make available to the Lenders and the Issuing Lenders materials and/or information provided by or on behalf of the Borrower hereunder (collectively, “Borrower Materials”) by posting the Borrower Materials on the Platform and (b) certain of the Lenders may be “public-side” Lenders (*i.e.*, Lenders that do not wish to receive material non-public information with respect to the Borrower or its securities) (each, a “Public Lender”). The Borrower hereby agrees that it will use commercially reasonable efforts to identify that portion of the Borrower Materials that may be distributed to the Public Lenders and that (w) all such Borrower Materials shall be clearly and conspicuously marked “PUBLIC” which, at a minimum, means that the word “PUBLIC” shall appear prominently on the first page thereof; (x) by marking Borrower Materials “PUBLIC,” the Borrower shall be deemed to have authorized the Administrative Agent, the Arranger, the Issuing Lenders and the Lenders to treat such Borrower Materials as not containing any material non-public information (although it may be sensitive and proprietary) with respect to the Borrower or its securities for purposes of United States Federal and state securities laws (provided, however, that to the extent such Borrower Materials constitute Information, they shall be treated as set forth in Section 12.10); (y) all Borrower Materials marked “PUBLIC” are permitted to be made available through a portion of the Platform designated “Public Investor;” and (z) the Administrative Agent and the Arranger shall be entitled to treat any Borrower Materials that are not marked “PUBLIC” as being suitable only for posting on a portion of the Platform not designated “Public Investor.” Notwithstanding the foregoing, the Borrower shall be under no obligation to mark any Borrower Materials “PUBLIC”.

SECTION 8.3 Notice of Litigation and Other Matters. Promptly (but in no event later than ten (10) days after any Responsible Officer of any Credit Party obtains knowledge thereof) notify the Administrative Agent in writing of (which shall promptly make such information available to the Lenders in accordance with its customary practice):

- (a) the occurrence of any Default or Event of Default;
- (b) (i) any dispute, litigation, investigation, proceeding or suspension between the Borrower or any Subsidiary and any Governmental Authority that has resulted or would reasonably be expected to result in a Material Adverse Effect, (ii) any other matter that has resulted or would reasonably be expected to result in a Material Adverse Effect, or (iii) the commencement of, or any material development in, any litigation or proceeding affecting the Borrower or any Subsidiary, including pursuant to any applicable Environmental Laws, in each case under this clause (iii), that has resulted or would reasonably be expected to result in final judgments or orders for the payment of money in an aggregate amount (as to all such judgments or orders) exceeding the Threshold Amount;
- (c) the occurrence of any ERISA Event that would reasonably be expected to exceed the Threshold Amount;
- (d) the receipt by any Credit Party or any of its Subsidiaries of (i) any so called “Warning Letter”, or similar notification, (ii) any notification of a mandated or requested recall affecting the products manufactured, sold or distributed by such Credit Party or such Subsidiary, or (iii) any other material correspondence which may be adverse, in any material respect, to the interest of the Borrower and its Subsidiaries (as determined in good faith by such applicable Borrower or such Subsidiary), in each case, from the FDA (or analogous foreign, state or local Governmental Authority);
- (e) the occurrence of any event or the existence of any other matter that has resulted or could reasonably be expected to result in Environmental Liability to the Borrower or any Subsidiary in excess of the Threshold Amount;

(f) the occurrence of any event or the existence of any other matter that has resulted or would reasonably be expected to result in a recall affecting (x) BioThrax, AV7909 or any other product which is sold or distributed by a Credit Party under a Material Government Contract or (y) other products manufactured, sold or distributed by a Credit Party or a Subsidiary of a Credit Party with a fair market value in the case of this clause (y) in excess of the Threshold Amount; and

(g) of any material change in accounting policies or financial reporting practices by any Credit Party or any Subsidiary thereof.

Each notice pursuant to Section 8.3 shall be accompanied by a statement of a Responsible Officer of the Borrower setting forth details of the occurrence referred to therein and stating what action the Borrower has taken and proposes to take with respect thereto. Each notice pursuant to Section 8.3(a) shall describe the provisions of this Agreement and any other Loan Document that have been breached. Each notice pursuant to Section 8.3(d) shall be accompanied by the applicable "Warning Letter", notification or correspondence received by the Borrower or such Subsidiary.

SECTION 8.4 Payment of Taxes. Pay and discharge as the same shall become due and payable all material tax liabilities, assessments and governmental charges or levies upon it or its properties or assets, unless the same are being contested in good faith by appropriate proceedings diligently conducted and adequate reserves in accordance with GAAP are being maintained by the Borrower or such Subsidiary.

SECTION 8.5 Preservation of Existence, Etc. (a) Preserve, renew and maintain in full force and effect its legal existence and good standing under the Applicable Laws of the jurisdiction of its organization except in a transaction permitted by Section 9.4 or 9.5; (b) take all reasonable action to maintain all rights, privileges, permits, licenses and franchises necessary or desirable in the normal conduct of its business, except to the extent that failure to do so would not reasonably be expected to have a Material Adverse Effect; and (c) preserve or renew all of its registered patents, trademarks, trade names and service marks, the non-preservation of which would reasonably be expected to have a Material Adverse Effect.

SECTION 8.6 Maintenance of Properties. Except where the failure to do so would not reasonably be expected to have a Material Adverse Effect, (a) maintain, preserve and protect all of its material properties and equipment necessary in the operation of its business in good working order and condition, ordinary wear and tear, casualty and condemnation excepted; and (b) use the standard of care typical in the industry in the operation and maintenance of its facilities.

SECTION 8.7 Maintenance of Insurance. Maintain with companies having an A.M. Best Rating of at least A- not Affiliates of the Borrower, insurance in such amounts, with such deductibles and covering such risks as are necessary to ensure that Uninsured Liabilities of the Borrower and/or any Subsidiary are not reasonably likely to result in a Material Adverse Effect. All such insurance shall, (a) provide that no cancellation or material modification thereof shall be effective until at least 30 days after receipt by the Administrative Agent of written notice thereof, (b) name the Administrative Agent as an additional insured party thereunder and (c) in the case of each casualty insurance policy, name the Administrative Agent as lender's loss payee or mortgagee, as applicable. If any improvements located on any portion of any Mortgaged Property are at any time located in an area identified by the Federal Emergency Management Agency (or any successor agency) as a special flood hazard area with respect to which flood insurance has been made available under the Flood Insurance Laws, then the Borrower shall, or shall cause the applicable Credit Party to, (i) maintain, or cause to be maintained, with a financially sound and reputable insurer, flood insurance in an amount and otherwise sufficient to comply with all applicable rules and regulations promulgated pursuant to the Flood Insurance Laws, (ii) reasonably

cooperate with the Administrative Agent and provide information reasonably required by the Administrative Agent and the Lenders to comply with the Flood Insurance Laws, (iii) deliver to the Administrative Agent evidence of such compliance in form and substance reasonably acceptable to the Administrative Agent, including evidence of annual renewals of such insurance and (iv) furnish to the Administrative Agent prompt written notice of any re-designation of any such improvements located on a Mortgaged Property into or out of a special flood hazard area.

SECTION 8.8 Compliance with Laws. Comply in all material respects with the requirements of all Applicable Laws and all orders, writs, injunctions and decrees applicable to it or to its business or property, except (to the extent not constituting a breach of any representation or warranty made pursuant to Section 7.16) in such instances in which (a) such requirement of Applicable Law or order, writ, injunction or decree is being contested in good faith by appropriate proceedings diligently conducted; or (b) the failure to comply therewith could not reasonably be expected to have a Material Adverse Effect.

SECTION 8.9 Books and Records. (a) Maintain proper books of record and account, in which full, true and correct in all material respects entries in conformity with GAAP consistently applied shall be made of all financial transactions and material matters involving the assets and business of the Borrower or such Subsidiary (subject to year-end audit adjustments and the absence of footnotes), as the case may be; (b) maintain such books of record and account in material conformity with all applicable requirements of any Governmental Authority having regulatory jurisdiction over the Borrower or such Subsidiary, as the case may be; (c) maintain systems of internal controls (including but not limited to, cost accounting systems, estimating systems, purchasing systems, proposal systems, billing systems and management systems) that are in compliance in all material respects with the requirements of its Material Contracts, and (d) without limiting the foregoing, maintain practices and procedures in estimating costs and pricing proposals and accumulating, recording, segregating, reporting and invoicing costs in compliance in all material respects with all applicable provisions of Part 31 (Cost Principles) of the Federal Acquisition Regulations and Federal Acquisition Regulation Part 99 (Cost Accounting Standards).

SECTION 8.10 Inspection Rights. Permit representatives and independent contractors of the Administrative Agent (and any Lenders that accompany the representatives or independent contractors of the Administrative Agent) to visit and inspect any of its properties, to examine its corporate, financial and operating records, and make copies thereof or abstracts therefrom, and to discuss its affairs, finances and accounts with its directors, officers, and independent public accountants, in each case, at such reasonable times during normal business hours and as often as may be reasonably desired, upon reasonable advance notice to the Borrower; provided that (a) absent an Event of Default, the Borrower shall only be required to pay for one such visit and/or inspection in any twelve month period, (b) when an Event of Default exists the Administrative Agent or any Lender (or any of their respective representatives or independent contractors) may do any of the foregoing at the expense of the Borrower at any time during normal business hours and without advance notice and (c) with respect to any discussion with the Borrower's or any Subsidiary's independent public accountants, the Borrower or its Subsidiary may, at their option, have one or more employees or representatives present at such discussion. Notwithstanding the foregoing, none of the Borrower or its Subsidiaries will be required to permit examinations or copies or abstracts of any records in respect to which the disclosure of such records is prohibited by Applicable Law or binding agreement or subject to attorney-client privilege or constitutes attorney-work product.

SECTION 8.11 Use of Proceeds. Use the proceeds of (a) the Initial Term Loans on the Closing Date to (i) finance the Transactions and (ii) pay or reimburse fees, commissions and expenses in connection with the Transactions and (b) the Revolving Credit Facility to (i) finance the Transactions, (ii) provide ongoing working capital, (iii) finance Permitted Acquisitions, (iv) finance Capital

Expenditures and (v) for other general corporate purposes and, in each case, in a manner not in contravention of any Loan Document.

SECTION 8.12 Covenant to Guarantee Secured Obligations and Give Security.

(a) Additional Domestic Subsidiaries. Promptly notify the Administrative Agent of the creation or acquisition (including by statutory division) of a Person that becomes a Domestic Subsidiary (other than an Excluded Subsidiary) and, within thirty (30) days after such creation, acquisition or event (as such time period may be extended by the Administrative Agent in its sole discretion), cause such Domestic—Subsidiary to (i) become a Guarantor by delivering to the Administrative Agent a duly executed supplement to the Guaranty Agreement in the form attached thereto as Exhibit A or such other document as the Administrative Agent shall deem reasonably acceptable for such purpose, (ii) grant a security interest in all Collateral (subject to the exclusions and exceptions specified in the Collateral Agreement) owned by such Domestic Subsidiary by delivering to the Administrative Agent a duly executed supplement to the Collateral Agreement in the form attached thereto as Exhibit A or such other document as the Administrative Agent shall deem reasonably acceptable for such purpose and comply with the terms of the Collateral Agreement, (iii) deliver to the Administrative Agent such opinions, documents and certificates referred to in Section 6.1 as may be reasonably requested by the Administrative Agent, (iv) if such Equity Interests are certificated, deliver to the Administrative Agent such original certificated Equity Interests or other certificates and stock or other transfer powers evidencing the Equity Interests of such Person, (v) deliver to the Administrative Agent such updated Schedules to the Loan Documents as reasonably requested by the Administrative Agent with respect to such Domestic Subsidiary and (vi) deliver to the Administrative Agent such other documents as may be reasonably requested by the Administrative Agent, all in form, content and scope reasonably satisfactory to the Administrative Agent.

(b) Additional Guarantors. If either (i) the total assets of all Domestic Subsidiaries that are not Guarantors, taken as a whole, as of the last day of the fiscal quarter set forth in the most recent financial statements delivered pursuant to Section 8.1(a), (b) or (d), is greater than ten percent (10%) of the consolidated total assets the Borrower and its Domestic Subsidiaries on such date or (ii) the total revenue of all Domestic Subsidiaries that are not Guarantors, taken as a whole, for the period of four (4) consecutive fiscal quarters ending on the last day of the most recent fiscal quarter covered by such financial statements is greater than ten percent (10%) of the consolidated total revenue of the Borrower and its Domestic Subsidiaries for such period (an “Additional Guarantor Trigger Event”), then the Borrower shall, within forty-five (45) days after the delivery of a respective Compliance Certificate indicating that an Additional Guarantor Trigger Event has occurred, cause one or more Domestic Subsidiaries to become Guarantors and comply with the requirements of this Section 8.12 (notwithstanding that such Domestic Subsidiary is an Immature Subsidiary) as necessary for the total assets and total revenue of all Domestic Subsidiaries that are not Guarantors, taken as a whole, to constitute less than ten percent (10%) of Consolidated total assets and ten percent (10%) of the Consolidated total revenue of the Borrower and its Domestic Subsidiaries at such time.

(c) Release of Immature Subsidiary as Guarantor. The Borrower may send a written notice to the Administrative Agent, in substantially the form attached hereto as Exhibit I, from time to time to remove an Immature Subsidiary as a Guarantor if both before and giving effect to such removal no Additional Guarantor Trigger Event shall exist and, upon receipt of such written notice by the Administrative Agent, the Immature Subsidiary specified in such written notice shall be released from all of its obligations as a Guarantor; provided that (i) immediately before and after such release, no Default or Event of Default shall have occurred and be continuing and (ii) all outstanding Investments

made by the Borrower and its Subsidiaries in such Immaterial Subsidiary as of such date of release shall be deemed to have been made under Section 9.2(c)(iv).

(d) Additional Collateral. Upon the acquisition (including any acquisition by statutory division) by any Credit Party of any Property of the type constituting Collateral, the applicable Credit Parties shall comply with the requirements set forth in the Collateral Documents with respect thereto.

| (e) [Reserved].

SECTION 8.13 Compliance With Environmental Laws. Comply, and use commercially reasonable efforts to cause all lessees and other Persons operating or occupying its properties to comply, in all material respects, with all applicable Environmental Laws and Environmental Permits; obtain and renew all Environmental Permits necessary for its operations and properties; and conduct any investigation, study, sampling and testing, and undertake any cleanup, removal, remedial or other action necessary to remove and clean up all Hazardous Materials from any of its properties, to the extent required under Environmental Laws; provided, however, that neither the Borrower nor any of its Subsidiaries shall be required to undertake any such cleanup, removal, remedial or other action to the extent that its obligation to do so is being contested in good faith and by proper proceedings and appropriate reserves are being maintained with respect to such circumstances in accordance with GAAP.

SECTION 8.14 Compliance with Anti-Corruption Laws; Beneficial Ownership Regulation, Anti-Money Laundering Laws and Sanctions. The Borrower will (a) maintain in effect and enforce policies and procedures designed to promote and endeavor to achieve compliance by the Borrower, its Subsidiaries and their respective directors, officers, employees and agents with all Anti-Corruption Laws, Anti-Money Laundering Laws and applicable Sanctions, (b) notify the Administrative Agent and each Lender that previously received a Beneficial Ownership Certification of any change in the information provided in the Beneficial Ownership Certification that would result in a change to the list of beneficial owners identified therein and (c) promptly upon the reasonable request of the Administrative Agent or any Lender, provide the Administrative Agent or such Lender, as the case may be, any information or documentation requested by it for purposes of complying with the Beneficial Ownership Regulation.

SECTION 8.15 Further Assurances. Promptly upon request by the Administrative Agent, or any Lender through the Administrative Agent, do, execute, acknowledge, deliver, record, re-record, file, re-file, register and re-register any and all such further acts, deeds, certificates, assurances and other instruments as the Administrative Agent, or any Lender through the Administrative Agent, may reasonably require from time to time in order to perfect and maintain the validity, effectiveness and priority of any of the Collateral Documents and any of the Liens intended to be created thereunder.

SECTION 8.16 Compliance with Terms of Material Contracts. Perform and observe in all material respects the terms and provisions of each Material Contract to be performed or observed by it, maintain each such Material Contract, as amended, restated, modified, supplemented or otherwise modified from time to time, in full force and effect (other than any such Material Contract that expires in accordance with its terms not due to a default by the Borrower or any of its Subsidiaries), use commercially reasonable efforts to enforce in all material respects each such Material Contract in accordance with its terms.

SECTION 8.17 Cash Management.

(a) BioThrax Receivables Account. Maintain the BioThrax Receivables Account with (i) a Lender or (ii) another depository bank that is not a Lender, subject to a customary Account Control Agreement in favor of the Administrative Agent.

(b) AV7909 Receivables Account. Once AV7909 has obtained either (i) full FDA approval or (ii) FDA emergency use authorization pursuant to Section 564 of the FFDCA, maintain each AV7909 Receivables Account with (A) a Lender or (B) another depository bank that is not a Lender, subject to a customary Account Control Agreement in favor of the Administrative Agent.

Notwithstanding anything to the contrary contained herein, no Credit Party shall take any action with respect to the BioThrax Receivables Account or the AV7909 Receivables Account which could impair, in any manner, any assignment of payments made under the Federal Assignment of Claims Act of 1940 in favor of the Administrative Agent, for the benefit of the Secured Parties, with respect to the BioThrax Contract or the AV7909 Contract.

SECTION 8.18 Post-Closing Matters. Execute and deliver the documents, take the actions and complete the tasks set forth on Schedule 8.18, in each case within the applicable corresponding time limits specified on such schedule.

SECTION 8.19 Lender Calls. Upon the reasonable request of the Administrative Agent, participate in status calls with the Administrative Agent and the Lenders to discuss the financial operations and performance of the Credit Parties' business, cash flows, capital raise efforts, regulatory matters and such other business matters relating to the Credit Parties as the Administrative Agent may reasonably request; provided that the Borrower shall not be required to conduct more than one call in each fiscal month.

SECTION 8.20 Junior Capital Raise. Promptly following the FourthSeventh Amendment Effective Date, the Borrower shall engage in efforts (the "Junior Capital Raise") to raise additional Indebtedness in the form of loans, securities or other instruments of equity capital, from the issuance of unsecured Indebtedness and/or sale or issuance of equity or equity-linked instruments (including, without limitation, the issuance of debt securities, convertible or other equity-linked securities, and preferred and convertible preferred equity) in an aggregate principal amount of not less than \$75,000,000-85,000,000 (for the avoidance of doubt, such amount shall be exclusive of any Indebtedness raised prior to the Seventh Amendment Effective Date) (the "Junior Capital Raise Amount"), and shall consummate the Junior Capital Raise by April 30July 31, 2024; provided (or such later date as agreed to by the Administrative Agent in its reasonable discretion but, in any event, no later than September 29, 2024); provided that from and after the Seventh Amendment Effective Date, the Junior Capital Raise Amount shall automatically be reduced in an amount equal to the Net Cash Proceeds from any Disposition occurring from and after the Seventh Amendment Effective Date permitted under this Agreement or which the Required Lenders have consented and the Net Cash Proceeds of which have been applied in accordance with Section 2.4(b)(iv) and Section 4.4(b)(ii); and provided that any Junior Capital Raise shall not require payment of (a) principal or (b) with respect to unsecured Indebtedness which is not convertible, interest in cash, in each case, until all Obligations have been paid in full in cash. In the event the Borrower elects to satisfy the Junior Capital Raise with convertible unsecured Indebtedness that includes interest payable in cash, at least three (3) Business Days prior to the consummation of such transaction, the Borrower shall have delivered to the Administrative Agent projections evidencing pro forma compliance with the Consolidated Debt Service Coverage Ratio covenant set forth in Section 9.11(a) for the period from the proposed date of the incurrence of such Indebtedness through the Revolving Credit Maturity Date (including, for the avoidance of doubt, and notwithstanding the covenant commencement date under Section 9.11(a), compliance with the Consolidated Debt Service Coverage Ratio for any fiscal quarter prior to March 31, 2024, in the event the proposed Indebtedness transaction is

~~closed prior to such date), certified by a Responsible Officer as being prepared in good faith on the basis of the assumptions stated therein, which assumptions were fair in light of the conditions known to the Borrower to exist at the time of delivery of such forecasts, and represented, at the time of delivery, the Borrower's good faith estimate of its future financial condition and performance.~~ For the avoidance of doubt, no mandatory prepayment under this Agreement shall be required in connection with the Junior Capital Raise.

SECTION 8.21 Collateral Matters.

(a) Mortgaged Properties. No later than ninety (90) days after the Fourth Amendment Effective Date, or such later date as agreed to by the Administrative Agent in its sole discretion, deliver to the Administrative Agent a first priority Mortgage, subject to Permitted Liens, with respect to all real property owned in fee by the Credit Parties and located in the United States, as set forth on Schedule 7.8(c) to the Fourth Amendment, together with (i) a completed "Life-of-Loan" Federal Emergency Management Agency Standard Flood Hazard Determination with respect to each such real property location (together with a notice about special flood hazard area status and flood disaster assistance, which, if applicable, shall be duly executed by the applicable Credit Party relating to such real property), (ii) if any improvements located on such real property are located in an area determined by the Federal Emergency Management Agency to have special flood hazards, evidence of such flood insurance as may be required under Applicable Law, including Regulation H of the FRB and the other Flood Insurance Laws and as required under Section 8.6 and (iii) such surveys, title insurance policies, legal opinions and other customary documents reasonably requested by the Administrative Agent with respect to such real property that are commercially economically available in the applicable jurisdiction, and further provided that any existing survey which is acceptable to the title company issuing any policy of title insurance for the benefit of the Administrative Agent for purposes of delivering customary survey-related coverage shall be acceptable to satisfy any requirement for a survey. Notwithstanding anything in the Loan Documents to the contrary, any Mortgage on any of the real property set forth on Schedule 7.8(c) to the Fourth Amendment, shall not secure the Obligations of any Lender that has not provided written confirmation to the Administrative Agent that flood insurance due diligence and flood insurance compliance has been completed by such Lender with respect to such real property, it being understood that upon the Administrative Agent's receipt of written confirmation from such Lender that flood insurance due diligence and flood insurance compliance with respect to such real property has been completed by such Lender (whether before or after the filing of a Mortgage for such real property), such exclusion shall no longer apply.

(b) Control Agreements. By no later than the Fourth Amendment Effective Date, or such later date as agreed to by the Administrative Agent in its sole discretion, deliver to the Administrative Agent customary Account Control Agreements in favor of the Administrative Agent with respect to their Deposit Accounts (as defined in the Collateral Agreement) other than those Deposit Accounts that constitute Excluded Deposit Accounts (as defined in the Collateral Agreement) pursuant to clauses (a), (b), (c), (e) and (f) of the definition thereof.

(c) Foreign Subsidiaries. No later than ninety (90) days after the Fourth Amendment Effective Date, or such later date as agreed to by the Administrative Agent in its sole discretion, pledge the remaining Equity Interests in any Foreign Subsidiaries owned by each Credit Party, unless such additional pledge would cause a material adverse tax consequence for the Borrower and its Subsidiaries, taken as a whole, as confirmed by the Administrative Agent in its reasonable discretion.

SECTION 8.22 Flood Insurance Matters. The parties hereto acknowledge and agree that, if there is any Mortgaged Property, any increase, extension, or renewal of any of the Loans or Commitments (excluding (a) any continuation or conversion of borrowings, (b) the making of any

Revolving Credit Loans or Swingline Loans or (c) the issuance, renewal or extension of Letters of Credit) may, in the sole discretion of the Administrative Agent, be subject to (and conditioned upon): (i) the prior delivery of all flood zone determination certifications, acknowledgements and evidence of flood insurance and other flood-related documentation with respect to such Mortgaged Property reasonably sufficient to evidence compliance with Flood Insurance Laws and as otherwise reasonably required by the Administrative Agent and (ii) the earlier to occur of (A) the date that occurs thirty (30) days after the Borrower has delivered the documentation set forth in clause (i) of this Section to the Administrative Agent (which may be delivered electronically) or (B) the Administrative Agent's receipt of written confirmation from each of the Lenders that flood insurance due diligence and flood insurance compliance has been completed by such Lender (such written confirmation not to be unreasonably withheld, conditioned or delayed).

ARTICLE IX

NEGATIVE COVENANTS

Until all of the Obligations (other than contingent, indemnification obligations not then due) have been paid and satisfied in full in cash, all Letters of Credit have been terminated or expired (or been Cash Collateralized) and the Revolving Credit Commitments terminated, the Credit Parties will not, and will not permit any of their respective Subsidiaries to.

SECTION 9.1 Liens. Create, incur, assume or suffer to exist any Lien upon any of its property, assets (including, without limitation, any IP Rights or owned real property) or revenues, whether now owned or hereafter acquired, or sign or file or suffer to exist under the Uniform Commercial Code of any jurisdiction a financing statement that names the Borrower or any of its Subsidiaries as debtor (other than precautionary lease filings in respect of operating leases covering only the property subject to any such lease and, which shall in no event secure any Indebtedness), or assign any accounts or other right to receive income, other than the following:

- (a) Liens pursuant to any Loan Document;
- (b) Liens existing on the Fourth Amendment Effective Date and listed on Schedule 7.8(b) and any renewals or extensions thereof; provided that (i) the property covered thereby is not changed, (ii) the amount secured or benefited thereby is not increased except as contemplated by Section 9.3(c), (iii) the direct or any contingent obligor with respect thereto is not changed, and (iv) any renewal or extension of the obligations secured or benefited thereby is permitted by Section 9.3(c);
- (c) Liens for taxes not yet due or which are being contested in good faith and by appropriate proceedings diligently conducted, if adequate reserves with respect thereto are maintained on the books of the applicable Person in accordance with GAAP;
- (d) carriers', warehousemen's, mechanics', materialmen's, repairmen's or other like Liens arising in the ordinary course of business which are not overdue for a period of more than 30 days or which are being contested in good faith and by appropriate proceedings diligently conducted, if adequate reserves with respect thereto are maintained on the books of the applicable Person;
- (e) pledges or deposits in the ordinary course of business in connection with workers' compensation, unemployment insurance and other social security legislation, other than any Lien imposed by ERISA;

(f) deposits or letters of credit or bank guarantees permitted under Section 9.3(p) to secure the performance of bids, trade contracts and leases (other than Indebtedness), statutory obligations, surety and appeal bonds, performance or bid bonds and other obligations of a like nature incurred in the ordinary course of business;

(g) easements, rights-of-way, restrictions and other similar encumbrances affecting real property which, in the aggregate, are not substantial in amount, and which do not in any case materially detract from the value of the property subject thereto or materially interfere with the ordinary conduct of the business of the applicable Person;

(h) Liens securing judgments or orders for the payment of money not constituting an Event of Default under Section 10.1(h);

(i) Liens securing Indebtedness permitted under Section 9.3(f); provided that (i) such Liens do not at any time encumber any property other than the property financed by such Indebtedness and (ii) the Indebtedness secured thereby does not exceed the cost or fair market value, whichever is lower, of the property being acquired on the date of acquisition;

(j) solely to the extent junior to the Liens on the Collateral securing the Secured Obligations, Liens securing obligations in respect of Indebtedness under any economic development incentive program from any State or any subdivision (including any city or county) permitted under Section 9.3(g); provided that such Liens (i) do not at any time encumber any property other than any property located in such State or subdivision giving rise to the Borrower's business development activities and such incentive program and (ii) to the extent encumbering any Collateral, shall at all times be subject to an intercreditor agreement, in form and substance reasonably satisfactory to the Administrative Agent;

(k) any interest or title of (i) a lessor, licensor or sublessor under any lease, license or sublease entered into by any Credit Party or any Subsidiary thereof in the ordinary course of business and covering only the assets so leased, licensed or subleased or (ii) a lessee, licensee, sublessee under any lease, license, sublease or sublicense by the Borrower or any Subsidiary permitted under Section 9.5;

(l) Liens existing on property acquired by the Borrower or any Subsidiary at the time such property is acquired or existing on the property of any Person at the time such Person becomes a Subsidiary after the Closing Date; provided that (i) such Liens exists at the time such Person becomes a Subsidiary and are not created in contemplation of or in connection with such Person becoming a Subsidiary, (ii) such Liens do not attach to any Property of the Borrower or any of its Subsidiaries other than those of the Subsidiary acquired or the property or assets so acquired (and property or assets affixed or appurtenant thereto) and (iii) such Lien shall secure only those obligations which it secures on the date of such acquisition or the date such Person becomes a Subsidiary, as the case may be;

(m) (i) Liens of a collecting bank arising in the ordinary course of business under Section 4-210 of the Uniform Commercial Code in effect in the relevant jurisdiction and (ii) Liens of any depositary bank or securities account in connection with statutory, common law and contractual rights of setoff and recoupment with respect to any deposit account or securities account of the Borrower or any Subsidiary thereof;

(n) Liens in favor of customs and revenue authorities arising as a matter of law and in the ordinary course of business to secure payment of customs duties in connection with the importation of goods;

(o) Liens deemed to exist in connection with Investments in repurchasing agreement under Section 9.2 and reasonable and customary initial deposits and margin deposits and similar Liens attached to commodities trading accounts or other brokerage accounts in the ordinary course of business and not for speculative purposes;

(p) Liens solely on cash earnest money deposits made by the Borrower or any Subsidiary in connection with any letter of intent or purchase agreement relating to an Investment permitted under Section 9.2;

(q) Liens on deposits and other amounts held in escrow to secure contractual payments (continent or otherwise) payable by the Borrower or any Subsidiary to a seller after the consummation of a Permitted Acquisition;

(r) Liens in respect to unearned premiums on insurance policies and the proceeds thereof securing the financing of premiums with respect thereto permitted under Section 9.3(n)(i);

(s) Liens on deposits to secure any Indebtedness permitted under Section 9.3(p); and

(t) other Liens securing purchase money Indebtedness outstanding in an aggregate principal amount not to exceed \$10,000,000; provided that no such Lien shall extend to or cover any IP Rights or real property owned by the Borrower or any Subsidiary.

Notwithstanding the foregoing, in no event shall this Section permit any consensual Liens on real property or IP Rights owned by the Borrower or any Subsidiary, other than Liens under clauses (a), (g), (k) and (l).

SECTION 9.2 Investments. Make any Investment, except:

(a) Investments held by the Borrower and its Subsidiaries in the form of Cash Equivalents and other Investments permitted by the Investment Policy;

(b) advances to officers, directors and employees of the Borrower and Subsidiaries (i) in an aggregate amount not to exceed \$500,000 at any time outstanding, for travel, entertainment, relocation and analogous ordinary business purposes and (ii) in an aggregate amount not to exceed \$500,000 at any time outstanding, in connection with such Person's purchase of Equity Interests of the Borrower;

(c) (i) Investments by the Borrower and its Subsidiaries in their respective Subsidiaries outstanding on the Fourth Amendment Effective Date, (ii) additional Investments by the Borrower and its Subsidiaries in Credit Parties, (iii) additional Investments by Non-Guarantor Subsidiaries in other Non-Guarantor Subsidiaries, and (iv) Investments in Non-Guarantor Subsidiaries, together with any Investments made pursuant to Section 9.2(h), in an aggregate outstanding amount with respect to such Investments under this clause (iv) not to exceed \$5,000,000;

(d) Investments consisting of extensions of credit in the nature of accounts receivable or notes receivable arising from the grant of trade credit in the ordinary course of business, and Investments received in satisfaction or partial satisfaction thereof from financially troubled account debtors to the extent reasonably necessary in order to prevent or limit loss;

(e) Guarantees permitted by Section 9.3 and Restricted Payments permitted by Section 9.6;

(f) Investments existing on the Fourth Amendment Effective Date (other than those referred to in Section 9.2(c)(i)) and set forth on Schedule 7.8(d) and any extensions, renewals or reinvestments

thereof, so long as the amount of any Investment made pursuant to this clause (f) is not increased at any time above the amount of such Investment set forth on Schedule 7.8(d);

(g) Acquisitions which meet the following requirements (each a “Permitted Acquisition”) which, in the case of a Permitted Acquisition that is a Limited Condition Acquisition, shall be subject to Section 1.14:

(i) the lines of business of the Person to be (or the property of which is to be) so purchased or otherwise acquired shall be substantially the same lines of business as one or more of the principal businesses of the Borrower and its Subsidiaries in the ordinary course or another business reasonably related thereto;

(ii) in the case of any Acquisition of all or substantially all of the Equity Interest in a Person, such Acquisition shall have been approved by the board of directors (or other equivalent governing body) of such Person;

(iii) immediately before and immediately after giving pro forma effect to any such Acquisition, no Default or Event of Default shall have occurred and be continuing;

(iv) (A) the Borrower shall be in compliance with the covenants set forth in Section 9.11 as of the last day of the most recently ended Measurement Period for which financial statements have been delivered pursuant to Section 8.1(a), (b) or (d) on a pro forma basis (after giving effect to such Acquisition, including any Extensions of Credit to be made to fund any such Acquisition) as though such Acquisition had been consummated as of the first day of such Measurement Period, and (B) the Borrower shall have provided to the Administrative Agent not less than five (5) Business Days (or such shorter period as agreed to by the Administrative Agent in its sole discretion) prior to the consummation of such Acquisition a Compliance Certificate demonstrating such compliance;

(v) that the aggregate consideration (including cash, Cash Equivalents and other deferred payment obligations) of all Permitted Acquisitions during any Fiscal Year shall not exceed \$10,000,000;

(vi) the Borrower shall have delivered to the Administrative Agent (which the Administrative Agent shall make available to each Lender), at least five (5) Business Days (or such shorter period as agreed to by the Administrative Agent in its sole discretion) prior to the date on which any such Acquisition is to be consummated, a description of such Acquisition with a reasonably detailed summary of all earnouts, milestones and other contingent payment obligations in connection with such Acquisition; and

(vii) the Borrower shall have delivered to the Administrative Agent a certificate of a Responsible Officer certifying that all of the requirements set forth above have been satisfied or will be satisfied on or prior to the consummation of such Acquisition;

(h) other Investments not exceeding \$5,000,000 at any time outstanding;

(i) Investments consisting of the payment of the “Subsequent Payment” pursuant to and as defined in that certain Asset Purchase Agreement, dated as of July 1, 2022, by and between Emergent Manufacturing Operations Baltimore LLC and Ridgeback Biotherapeutics, L.P., as in effect on the Fourth Amendment Effective Date;

- (j) Investments consisting of Hedge Agreements permitted under Section 9.3(e);
- (k) Investments in the Equity Interest of the Borrower which is held by the Borrower as treasury stock;
- (l) Investments constituting non-cash proceeds of Dispositions of assets to the extent permitted by Section 9.5;
- (m) the Adapt US/Canada Integration;
- (n) the PaxVax US Integration; and
- (o) to the extent ~~theany~~ TSA is in effect, Investments consisting of payments made for processing accounts payable pursuant to the ~~Project Emerald Transaction~~applicable sale transaction; provided that the net amount owing to the Credit Parties with respect to collection of accounts receivable and processing accounts payable pursuant to the ~~Project Emerald Transaction~~applicable sale transaction shall not exceed \$5,000,000.00 at any time.

For purposes of determining the amount of any Investment outstanding for purposes of this Section 9.2, such amount shall be deemed to be the amount of such Investment when made, purchased or acquired (without adjustment for subsequent increases or decreases in the value of such Investment) less any amount realized in respect of such Investment upon the sale, collection or return of capital (not to exceed the original amount invested).

SECTION 9.3 Indebtedness. Create, incur, assume or suffer to exist any Indebtedness, except:

- (a) Indebtedness under the Loan Documents;
- (b) Indebtedness of a Subsidiary of the Borrower owed to the Borrower or Subsidiary of the Borrower, which Indebtedness shall (i) in the case of Indebtedness owed to a Credit Party, constitute "Collateral" under the Collateral Agreement, (ii) in the case of Indebtedness owed by a Credit Party to a Non-Guarantor Subsidiary shall be unsecured and if such Indebtedness is evidenced by a note or other written agreement, shall be subordinated to the Obligations on terms reasonably acceptable to the Administrative Agent and (iii) be otherwise permitted under the provisions of Section 9.2(c), (h) or (i);
- (c) Indebtedness outstanding on the Fourth Amendment Effective Date and listed on Schedule 9.3 and any refinancings, refundings, renewals or extensions thereof; provided that (i) the amount of such Indebtedness is not increased (unless otherwise permitted under this Section 9.3) at the time of such refinancing, refunding, renewal or extension except by an amount equal to a reasonable premium or other reasonable amount paid, and fees and expenses reasonably incurred, in connection with such refinancing and by an amount equal to any existing commitments unutilized thereunder, (ii) the direct or any contingent obligor with respect thereto is not changed as a result of or in connection with such refinancing, refunding, renewal or extension, (iii) the final maturity date and weighted average life to maturity of such refinancing, refunding, renewal or extension shall not be prior to or shorter than that applicable to the Indebtedness prior to such refinancing, refunding, renewal or extension and (iv) the terms relating to principal amount, amortization, maturity, collateral (if any) and subordination (if any), and other material terms taken as a whole, of any such refinancing, refunding, renewing or extending Indebtedness, and of any agreement entered into and of any instrument issued in connection therewith, are no less favorable in any material respect to the Credit Parties or the Lenders than the terms of any agreement or instrument governing the Indebtedness being refinanced, refunded, renewed or extended

and the interest rate applicable to any such refinancing, refunding, renewing or extending Indebtedness does not exceed the then-applicable market interest rate;

(d) (i) Guarantees by a Credit Party in respect of Indebtedness otherwise permitted hereunder of the Borrower or any other Credit Party, (ii) Guarantees by a Non-Guarantor Subsidiary in respect of Indebtedness otherwise permitted hereunder of the Borrower or any other Subsidiary, (iii) Guarantees by a Credit Party in respect of Indebtedness of Non-Guarantor Subsidiaries to the extent constituting an Investment in respect thereof permitted under Section 9.2, (iv) Guarantees by the Borrower of obligations under Hedge Agreements of any Foreign Subsidiary permitted pursuant to Section 9.3(e) owing to any Lender and (v) Guarantees by the Borrower or any Subsidiary of any Cash Management Agreement with a Lender or an Affiliate of a Lender to which the Borrower or any Subsidiary is a party permitted under Section 9.3(o);

(e) obligations (contingent or otherwise) of the Borrower or any Subsidiary existing or arising under any Hedge Agreements; provided that (i) such obligations are (or were) entered into by such Person in the ordinary course of business for the purpose of directly mitigating risks associated with liabilities, commitments, investments, assets, or property held or reasonably anticipated by such Person, or changes in the value of securities issued by such Person, and not for purposes of speculation or taking a "market view;" and (ii) such Hedge Agreement does not contain any provision exonerating the non-defaulting party from its obligation to make payments on outstanding transactions to the defaulting party;

(f) Indebtedness in respect of Capitalized Leases, Synthetic Lease Obligations and purchase money obligations for fixed or capital assets; provided that the aggregate amount of all such Indebtedness, together with any Indebtedness incurred pursuant to Section 9.3(l), at any one time outstanding shall not exceed the greater of \$50,000,000 and 5% of Consolidated Tangible Assets;

(g) Indebtedness of the Borrower or any other Credit Party arising in connection with any economic development incentive program or grant from any State or any subdivision thereof (including any city or county) in connection with the Borrower's or such Credit Party's business development activities in such State or subdivision; provided that the aggregate principal amount of such Indebtedness outstanding at any time shall not exceed \$15,000,000;

(h) unsecured Indebtedness ~~or Subordinated Indebtedness (including earn-out obligations)~~ of the Borrower and its Subsidiaries; provided that (i) if the proceeds of such Indebtedness are used to fund all or a portion of a Permitted Acquisition, the Borrower is in compliance, as of the date of incurrence (if not a Limited Condition Acquisition or, if a Limited Condition Acquisition and the Borrower has elected to test on such date) or as of the date of entering into a definitive agreement for such Permitted Acquisition (if a Limited Condition Acquisition and the Borrower elects to test on such date), as applicable, on a pro forma basis after giving effect to the incurrence of such Indebtedness and the use of proceeds thereof with Section 9.11 as of the last day of the most recently ended Measurement Period for which financial statements have been delivered pursuant to Section 8.1(a), (b) or (d), (ii) if the proceeds of such Indebtedness are not to fund all or a portion of a Permitted Acquisition, the Borrower is in compliance, as of the date of incurrence, on a pro forma basis after giving effect to the incurrence of such Indebtedness with (A) a Consolidated Leverage Ratio 0.25 inside of the applicable level required pursuant to Section 9.11(b) and (B) the other covenants set forth in Section 9.11, in each case, as of the last day of the most recently ended Measurement Period for which financial statements have been delivered pursuant to Section 8.1(a), (b) or (d), (iii) no Default or Event of Default shall have occurred and be continuing or would be caused by the incurrence of such Indebtedness, (iv) such Indebtedness does not mature prior to the date that is one hundred eighty (180) days after the then latest Revolving Credit Maturity Date or maturity date of any Term Loan, as applicable, at the time of the incurrence of

such Indebtedness, (v) if guaranteed, such Indebtedness is not guaranteed by any Subsidiary that is not a Credit Party, (vi) if such Indebtedness is Subordinated Indebtedness, (x) it will not have mandatory prepayment or mandatory amortization, redemption, sinking fund or similar prepayments (other than asset sale and change of control mandatory offers to repurchase customary for high yield debt securities) prior to the date that is one hundred eighty (180) days after the Revolving Credit Maturity Date or maturity date of any Term Loan, as applicable, at the time of the incurrence of such Indebtedness and (y) any guaranty of such Indebtedness by the Credit Parties shall be expressly subordinated to the Obligations on terms materially not less favorable to the Lenders than the subordination terms of such Subordinated Indebtedness, (vii) the terms of such Indebtedness (other than pricing, fees, rate floors, premiums and optional prepayment or redemption provisions (and, if applicable, subordination terms)) taken as a whole, are not materially more restrictive (as determined by the Borrower in good faith) on the Borrower and its Subsidiaries than the terms and conditions of this Agreement, taken as a whole and (viii) the aggregate principal amount of such Indebtedness outstanding at any time shall not exceed \$10,000,000; for the purpose of satisfying, and in accordance with the requirements of, Section 8.20;

(i) [reserved];

(j) Indebtedness in respect of earnouts, milestones and other contingent payment obligations incurred in connection with (i) any Permitted Acquisition or (ii) other Acquisition to which the requisite Lenders have consented;

(k) unsecured Indebtedness consisting of promissory notes issued to current or former officers, directors, consultants and employees, their respective estates, spouses or former spouses to finance the purchase or redemption of Equity Interests of the Borrower permitted by Section 9.6(i);

(l) Indebtedness of any Person that becomes a Subsidiary after the date hereof and extensions, renewals and replacements of any such Indebtedness that do not increase the outstanding principal amount thereof, except by an amount equal to any original issue discount, a reasonable premium or other reasonable amount paid, and fees and expenses reasonably incurred, in connection with such refinancing; provided that (i) such Indebtedness exists at the time such Person becomes a Subsidiary and is not created in contemplation of or in connection with such Person becoming a Subsidiary and (ii) the aggregate amount of all such Indebtedness, together with an Indebtedness incurred pursuant to Section 9.3(f), at any one time outstanding shall not exceed the greater of \$50,000,000 and 5% of Consolidated Tangible Assets;

(m) unsecured Indebtedness consisting of obligations of the Borrower or any Subsidiary under deferred compensation or other similar arrangements incurred by such Person in connection with any Permitted Acquisition or other Investment permitted hereunder;

(n) Indebtedness consisting of (i) the financing of insurance premiums payable on insurance policies maintained by the Borrower or any Subsidiary thereof or (ii) take or pay obligations contained in any supply arrangements, in each case, in the ordinary course of business;

(o) Indebtedness arising under, or in connection with, any Cash Management Agreement to which the Borrower or any Subsidiary is a party and entered into in the ordinary course of business;

(p) obligations of the Borrower or any Subsidiary under letters of credit, banker's acceptances or bank guarantee denominated in a currency other than Dollars issued for the account of the Borrower or any of its Subsidiaries, provided that the aggregate amount of all such obligations (including

the maximum amount to be drawn under all such letters of credit) shall not exceed \$5,000,000 at any time outstanding;

(q) surety bonds, performance or bid bonds and other obligations of a like nature incurred by the Borrower or any Subsidiary in the ordinary course of business in compliance with the terms of any government contract;

(r) Indebtedness arising from agreements of the Borrower or any Subsidiary providing for indemnification, in each case, entered into in connection with a Permitted Acquisition, other Investments permitted hereunder or the Disposition of any business, assets or Equity Interests permitted hereunder;

(s) purchase money Indebtedness of the Borrower or any Subsidiary in an aggregate principal amount not to exceed \$10,000,000 at any time outstanding;

(t) any intercompany loan payable to the Borrower by Emergent International (the “EI/Adapt Intercompany Loan”), which EI/Adapt Intercompany Loan may be forgiven, reduced or cancelled upon the consummation of the Adapt US/Canada Integration;

(u) any intercompany loan payable to Emergent International by Irish Newco Subsidiary (the “Irish Newco/Adapt Intercompany Loan”); provided that the Irish Newco/Adapt Intercompany Loan is evidenced by a promissory note in the initial principal amount of not less than the initial principal amount of the Term Loan Facility and pledged as Collateral, the principal amount of which Irish Newco/Adapt Intercompany Loan may be forgiven, cancelled or reduced by the fair market value of Adapt US and Adapt Canada upon the assignment, transfer, dividend or distribution of the Adapt US/Canada Shares, directly or indirectly, to a Credit Party;

(v) any intercompany loan payable to the Borrower by Emergent International permitted as part of the PaxVax Acquisition Investment (the “EI/PaxVax Intercompany Loan”), which EI/PaxVax Intercompany Loan may be forgiven, reduced or cancelled upon the consummation of the PaxVax US Integration;

(w) any intercompany loan payable to Emergent International by Panama Merger Sub permitted as part of the PaxVax Acquisition Investment (the “PaxVax Intercompany Loan”), the principal amount of which PaxVax Intercompany Loan may be forgiven, cancelled or reduced by the fair market value of PaxVax US, upon the assignment, transfer, dividend or distribution of the PaxVax US Shares, directly or indirectly, to a Credit Party;

(x) Indebtedness of the Credit Parties under the 2028 Senior Notes in an aggregate outstanding principal amount not to exceed \$450,000,000 at any time and any refinancings, refundings, renewals or extensions thereof; provided that (i) ~~unless otherwise permitted under Section 9.3(h) at the time of such refinancing, refunding, renewal or extension, the principal amount (excluding interest paid in kind) of such Indebtedness shall not exceed the principal amount of the Indebtedness being refinanced, refunded, renewed or extended, plus accrued interest and premiums and defeasance costs, fees, commissions and expenses associated with such refinancing, refunding, renewal or extension~~ [reserved], (ii) no obligors, other than any direct or any contingent obligor with respect to such Indebtedness or any obligor that would have been required to become an obligor with respect to the Indebtedness being refinanced, refunded, renewed or extended, shall be an obligor under such refinancing, refunding, renewal or extension, (iii) the final maturity date of such refinancing, refunding, renewal or extension, at the time of incurrence thereof, shall not be prior to the date that is one hundred eighty (180) days after the then latest Revolving Credit Maturity Date or Term Loan Maturity Date, as applicable, and (iv) the material terms (other than fees, interest rate, rate floors, premiums, optional prepayment, redemption

provisions and conversion price), taken as a whole, of any such refinancing, refunding, renewing or extending Indebtedness are not more restrictive (as determined by the Borrower in good faith) in any material respect to the Credit Parties than the terms of any agreement or instrument governing the Indebtedness, taken as a whole, being refinanced, refunded, renewed or extended and the interest rate applicable to any such refinancing, refunding, renewing or extending Indebtedness does not exceed the then-applicable market interest rate, as determined by the Borrower in good faith;

(y) Indebtedness of the Credit Parties and their Subsidiaries owing to the Borrower's Canadian Foreign Subsidiaries in an aggregate principal amount not to exceed \$40,000,000 at any time outstanding with a maturity of not less than one (1) year from the incurrence of such Indebtedness; and

(z) Indebtedness of the Credit Parties in the form of the Junior Capital Raise.

In the event that an item of Indebtedness meets the criteria of more than one of the categories of Indebtedness described in clauses (f), (g), (i), (l), (p), (s) and (x) above, the Borrower may select which such category shall apply to such Indebtedness and may, in its sole discretion, divide and reallocate the Indebtedness among multiple available categories pursuant to more than one of the above clauses.

SECTION 9.4 Fundamental Changes. Merge, dissolve, liquidate, consolidate with or into another Person, or Dispose of (whether in one transaction or in a series of transactions) all or substantially all of its assets (whether now owned or hereafter acquired) to or in favor of any Person (including, in each case, pursuant to statutory division), except that:

(a) any Subsidiary may merge or amalgamate with (i) the Borrower, provided that the Borrower shall be the continuing or surviving Person, or (ii) any one or more other Subsidiaries, provided that when any Credit Party (other than the Borrower) is merging or amalgamating with another Subsidiary, such Credit Party shall be the continuing or surviving Person;

(b) any Subsidiary may Dispose of all or substantially all of its assets (upon voluntary liquidation or otherwise) to the Borrower or to another Credit Party;

(c) any Non-Guarantor Subsidiary may dispose of all or substantially all its assets (including any Disposition that is in the nature of a liquidation) to (i) a Non-Guarantor Subsidiary that is a Wholly-Owned Subsidiary, (ii) solely in the case of any disposition by a non-Wholly-Owned Subsidiary of its assets, such disposition may be made ratably according to the respective holdings of each Person that owns the Equity Interest in such Subsidiary, or (iii) to a Credit Party;

(d) in connection with any Acquisition permitted under Section 9.2, any Subsidiary of the Borrower may merge into or consolidate with any other Person or permit any other Person to merge into or consolidate with it; provided that (i) the Person surviving such merger shall be a Subsidiary of the Borrower (with the Borrower owning, directly or indirectly, the same proportionate share of the Person surviving such merger or consolidation as the existing Subsidiary of the Borrower that is party to such merger or consolidation) and (ii) in the case of any such merger to which any Credit Party (other than the Borrower) is a party, such Credit Party is the surviving Person;

(e) so long as no Default or Event of Default has occurred and is continuing or would result therefrom, each of the Borrower and any of its Subsidiaries may merge into or consolidate with any other Person or permit any other Person to merge into or consolidate with it; provided that in each case, immediately after giving effect thereto (i) in the case of any such merger to which the Borrower is a

party, the Borrower is the survivor and (ii) in the case of any such merger to which any Credit Party (other than the Borrower) is a party, such Credit Party is the survivor;

(f) any Subsidiary that has Disposed of all or substantially all of its assets in accordance with Section 9.4(b) or (c) or has substantially no assets may be dissolved;

(g) any Immaterial Subsidiaries may merge, amalgamate, dissolve, liquidate, consolidate with or into the Borrower or any Domestic Subsidiary, or Dispose of (whether in one transaction or in a series of transactions) all or substantially all of its assets (whether now owned or hereafter acquired) to or in favor of the Borrower or any Domestic Subsidiary;

- (h) Dispositions permitted by Section 9.5 (other than Section 9.5(e));
- (i) the Adapt US/Canada Integration; and
- (j) the PaxVax US Integration.

SECTION 9.5 Dispositions. Make any Disposition, except:

(a) Dispositions of obsolete or worn out property, whether now owned or hereafter acquired, in the ordinary course of business;

(b) Dispositions of inventory in the ordinary course of business;

(c) Dispositions of equipment or real property to the extent that (i) such property is exchanged for credit against the purchase price of similar replacement property or (ii) the proceeds of such Disposition are reasonably promptly applied to the purchase price of such replacement property;

(d) Dispositions of property by any Subsidiary to the Borrower or to a Wholly-Owned Subsidiary; provided that if the transferor of such property is a Guarantor, the transferee thereof must either be the Borrower or a Guarantor;

(e) Dispositions permitted by Section 9.4 (other than Section 9.4(h)) and any Disposition constituting a Restricted Payment permitted under Section 9.6;

(f) non-exclusive licenses of IP Rights (other than any IP Rights related to BioThrax or AV7909) on customary terms consistent with the ordinary course of business in the biotechnology industry;

(g) Dispositions (including, without limitation, Dispositions of IP Rights, other than IP Rights related to BioThrax) by the Borrower and its Subsidiaries; provided that (i) at the time of such Disposition, no Default or Event of Default shall exist or would result from such Disposition and (ii) the aggregate fair market value of all property Disposed of in reliance on this clause (g) in any fiscal year shall not exceed \$5,000,000;

(h) Dispositions of Investments in joint ventures (regardless of the form of legal entity) to the extent required by, or made pursuant to, customary buy/sell arrangements (including, without limitation, any puts, calls or deadlock buyouts) between the joint venture parties set forth in joint venture arrangements and similar binding arrangements;

(i) Dispositions that gives rise to the receipt by the Borrower or any of its Subsidiaries of any casualty insurance proceeds or condemnation awards or that gives rise to a taking by a Governmental

Authority in respect of any equipment, fixed assets or real property (including any improvements thereon) to replace, restore or repair, or compensate for the loss of, such equipment, fixed assets or real property;

(j) the issuance or sale of any Equity Interests of a Subsidiary of the Borrower to qualified directors if required by Applicable Law;

(k) the abandonment or other Disposition of Intellectual Property that is, in the reasonable judgment of the Borrower, no longer economically practical to maintain and not material to the conduct of the business of the Borrower or its Subsidiaries, taken as a whole;

(l) Dispositions of accounts receivable (other than any account receivable arising under a Material Contract) in connection with the collection, compromise or settlement thereof in the ordinary course of business and not as part of a financing transaction;

(m) leases, subleases, licenses or sublicenses with respect to any real or personal property (other than IP Rights) which do not materially interfere with the business of the Borrower or any of its Subsidiaries, taken as a whole, including leases of real property;

(n) the unwinding of any Hedge Agreement;

(o) sale of non-core assets acquired in connection with a Permitted Acquisition which, within six (6) months after the date of such Permitted Acquisition, are designated in writing to the Administrative Agent as being held for sale and not for the continued operation of the Borrower or any of its Subsidiaries;

(p) the Adapt US/Canada Integration; and

(q) the PaxVax US Integration;

provided, however, that any Disposition pursuant to this Section 9.5 (other than pursuant to subsections (a), (d), (e), (h), (i), (j), (k), (l) and (n) above) shall be for fair market value (in the Borrower's good faith determination).

SECTION 9.6 Restricted Payments. Declare or make, directly or indirectly, any Restricted Payment, except that:

(a) each Subsidiary may make Restricted Payments to the Borrower, the Guarantors and any other Person that owns an Equity Interest in such Subsidiary, ratably according to their respective holdings of the type of Equity Interest in respect of which such Restricted Payment is being made;

(b) the Borrower and each Subsidiary may declare and make dividend payments or other distributions payable solely in the common stock or other Qualified Equity Interests of such Person (including in connection with any stock split, combination or reclassification of common stock or other Qualified Equity Interests of such Person);

(c) so long as no Default or Event of Default shall have occurred and be continuing or would result therefrom, the Borrower may purchase, redeem or otherwise acquire its common Equity Interests issued by it with the proceeds received from the substantially concurrent issue of new shares of its common stock or other common Equity Interests;

(d) so long as no Default or Event of Default shall have occurred and be continuing or would result therefrom, the Borrower may make Restricted Payments (including, without limitation, any purchase, redemption or other acquisition of the Borrower's common Equity Interests pursuant to stock purchase programs entered into by the Borrower from time to time); provided that the aggregate amount of Restricted Payments made pursuant to this Section 9.6(d) shall not exceed \$1,000,000 per calendar year;

(e) for the avoidance of doubt, the Borrower may issue and sell its common Equity Interests or any warrants or options with respect thereto pursuant to any executive compensation or stock option plan;

(f) for the avoidance of doubt, the Borrower may issue and sell its Equity Interests to the extent constituting Qualified Equity Interests;

(g) [reserved];

(h) to the extent constituting a Restricted Payment, the Borrower may make cash payments in lieu of delivering fractional shares of stock of the Borrower in connection with (i) any dividend, split or combination of its stock or stock equivalents or any Permitted Acquisition (or similar permitted Investment) or (ii) the exercise of warrants, options or other securities convertible into or exchangeable for the stock of the Borrower;

(i) so long as no Event of Default has occurred and is continuing or would result therefrom, the Borrower may repurchase its stock or stock equivalents held by any present or former officer, director or employee (or their respective Affiliates, estates or immediate family members) of the Borrower and its Subsidiaries, so long as such repurchase is pursuant to, and in accordance with the terms of, or pursuant to, management and/or employee stock plans, stock subscription agreements or shareholder agreements or any other management or employee benefit plans or agreements in an aggregate amount not to exceed \$2,500,000 in any Fiscal Year; provided that the Borrower may carry-over any unused amounts in any Fiscal Year to succeeding Fiscal Years; provided further, after giving effect to any such amounts carried over, not than not more \$5,000,000 of repurchases under this clause (i) may be made in any Fiscal Year;

(j) the Borrower may convert any Indebtedness or other Equity Interests into common stock of the Borrower from time to time;

(k) [reserved];

(l) the Adapt US/Canada Integration; and

(m) the PaxVax US Integration.

SECTION 9.7 Change in Nature of Business. Engage in any material line of business substantially different from those lines of business conducted by the Borrower and its Subsidiaries on the date hereof or any business substantially related or incidental thereto.

SECTION 9.8 Transactions with Affiliates. Enter into any transaction of any kind with any Affiliate of the Borrower, whether or not in the ordinary course of business, other than on fair and reasonable terms substantially as favorable to the Borrower or such Subsidiary as would be obtainable by the Borrower or such Subsidiary at the time in a comparable arm's length transaction with a Person other than an Affiliate; provided that the foregoing restriction shall not apply to (a) transactions between or among the Credit Parties, (b) employment and severance arrangements between the Borrower or any

Subsidiary and their respective officers and employees in the ordinary course of business and transactions pursuant to any management and/or employee stock plans, stock subscription agreements or shareholder agreements or any other management or employee benefit plans or agreements, (c) any transactions permitted under Sections 9.2, 9.3, 9.4, 9.5 and 9.6 of this Agreement, (d) any agreement between any Person and an Affiliate of such Person existing at the time such Person is acquired in connection with a Permitted Acquisition; provided such agreement was not entered into in connection with such Permitted Acquisition, (e) any payment of director, officer and employee compensation and other benefits and indemnification arrangements, (f) Adapt US/Canada Integration and (g) the PaxVax US Integration.

SECTION 9.9 Burdensome Agreements. Enter into or permit to exist any Contractual Obligation (other than this Agreement or any other Loan Document) that (a) limits the ability of any Subsidiary to make any dividend or other distribution with respect to its capital stock or other Equity Interest or to make or pay loans or advances to the Borrower or any Subsidiary, (b) limits the ability of any Domestic Subsidiary to Guarantee the Secured Obligations, (c) limits the ability of the Borrower or any Domestic Subsidiary to create, incur, assume or suffer to exist Liens on property (including, without limitation, any IP Rights or real property owned by the Borrower or any Domestic Subsidiary) of such Person to secure the Secured Obligations or (d) requires the grant of a Lien to secure an obligation of the Borrower or any of its Subsidiaries if a Lien is granted to secure the Secured Obligations, in each case except for (i) any agreement in effect on the date hereof and set forth on Schedule 9.9 (or any extensions or renewals of, or any refinancings, replacements, amendments or modifications thereof that do not expand the scope of the limitation in any material respect), (ii) any negative pledge incurred or provided in favor of any holder of Indebtedness permitted under Section 9.3(f), solely the extent any such negative pledge relates to the property financed by or subject of such Indebtedness, (iii) any agreement in effect at the time any Subsidiary becomes a Subsidiary of the Borrower, so long as such agreement was not entered into solely in contemplation of such Person becoming a Subsidiary of the Borrower, (iv) any agreement relating to the sale of a Subsidiary, which provides for customary restrictions or conditions pending such sale, provided that such restrictions and conditions apply only to the Subsidiary that is to be sold and such sale is permitted hereunder, (v) any customary restrictions and conditions in any agreement relating to any transaction or sale permitted under Section 9.4 or Section 9.5 pending the consummation of such transaction or sale, (vi) customary provisions in leases, licenses and other contracts restricting the assignment thereof, (vii) customary provisions in any joint venture agreement or similar agreements applicable to joint ventures to the extent permitted under this Agreement, (viii) restrictions on cash and other deposits imposed by customers under contracts entered into in the ordinary course of business or (ix) such limitations imposed by Applicable Law.

SECTION 9.10 Use of Proceeds. Use the proceeds of any Extension of Credit, whether directly or indirectly, and whether immediately, incidentally or ultimately, to purchase or carry margin stock (within the meaning of Regulation U of the FRB) in violation of Applicable Law or to extend credit to others for the purpose of purchasing or carrying margin stock or to refund indebtedness originally incurred for such purpose in violation of Applicable Law.

SECTION 9.11 Financial Covenants.

(a) [Reserved].

(b) [Reserved].

(a) **Consolidated Debt Service Coverage Ratio.** Commencing with the fiscal quarter ending on March 31, 2024, permit the Consolidated Debt Service Coverage Ratio as of the last day of any Measurement Period of the Borrower to be less than (x) with respect to the fiscal quarters ending March

31, 2024, June 30, 2024, September 30, 2024 and December 31, 2024, 2.25 to 1.00 and (y) with respect to each fiscal quarter ending thereafter, 2.50 to 1.00.

(b) Consolidated Leverage Ratio. Commencing with the fiscal quarter ending on March 31, 2024, permit the Consolidated Leverage Ratio as of the last day of any Measurement Period of the Borrower to be greater than 4.50 to 1.00.

(c) Consolidated EBITDA. Permit Consolidated EBITDA to be less than the amounts set forth below for the periods set forth below:

Period Commencing on January 1, 20232024 and Ending on the Dates Set Forth Below:	Cumulative Minimum EBITDA
April 30, 2023	[**]
May 31, 2023	[**]
June 30, 2023	[**]
July 31, 2023	[**]
August 31, 2023	[**]
September 30, 2023	[**]
October 31, 2023	[**]
November 30, 2023	[**]
December 31, 2023	[**]
January 31, 2024	[**]
February 29, 2024	\$[**] [**]
April 30, 2024	[**]
May 31, 2024	[**]
June 30, 2024	[**]
July 31, 2024	[**]
August 31, 2024	[**]
September 30, 2024	[**]
October 31, 2024	[**]
November 30, 2024	[**]
December 31, 2024	[**]
January 31, 2025	[**]
February 28, 2025	[**]
March 31, 2025	[**]

(d) Maximum Capital Expenditures. Permit cumulative Capital Expenditures (excluding any customer rebates or reimbursements) to be greater than the amounts set forth below for the periods set forth below:

Period Commencing on January 1, 20232024 and	Cumulative Capital
188290905_7	130

Ending on the Dates Set Forth Below:	Expenditures
<u>April 30, 2023</u>	[**] _____
<u>May 31, 2023</u>	[**] _____
<u>June 30, 2023</u>	[**] _____
<u>July 31, 2023</u>	[**] _____
<u>August 31, 2023</u>	[**] _____
<u>September 30, 2023</u>	[**] _____
<u>October 31, 2023</u>	[**] _____
<u>November 30, 2023</u>	[**] _____
<u>December 31, 2023</u>	[**] _____
<u>January</u> <u>March</u> 31, 2024	[**] _____
<u>February 29, 2024</u>	[**] [**] _____
<u>April 30, 2024</u>	[**] _____
<u>May 31, 2024</u>	[**] _____
<u>June 30, 2024</u>	[**] _____
<u>July 31, 2024</u>	[**] _____
<u>August 31, 2024</u>	[**] _____
<u>September 30, 2024</u>	[**] _____
<u>October 31, 2024</u>	[**] _____
<u>November 30, 2024</u>	[**] _____
<u>December 31, 2024</u>	[**] _____
<u>January 31, 2025</u>	[**] _____
<u>February 28, 2025</u>	[**] _____
<u>March 31, 2025</u>	[**] _____

(e) Minimum Liquidity. Permit Liquidity as of March 8, 2024, and as of the last Business Day of each two-week period thereafter, to be less than \$75,000,000.

SECTION 9.12 Amendments to Organization Documents. Amend any of its Organization Documents in a manner materially adverse to the interests of the Lenders.

SECTION 9.13 Accounting Changes. Make any change in (a) accounting policies or reporting practices, except as required or permitted by GAAP or the SEC, or (b) fiscal year.

SECTION 9.14 Payments, Etc. of Indebtedness. Prepay, redeem, purchase, defease or otherwise satisfy prior to the scheduled maturity thereof in any manner, or make any payment in violation of any subordination terms of, any Subordinated Indebtedness permitted under Sections 9.3(h) or 9.3(d) ~~(to the extent constituting Guarantees of Indebtedness under Section 9.3(h))~~ or the 2028 Senior Notes (such Indebtedness, “Subject Indebtedness”), except:

- (a) [reserved];
- (b) the Borrower may make payments permitted under Section 9.6(g);
- (c) the Borrower may deliver Qualified Equity Interests of the Borrower to any holder of the 2028 Senior Notes in connection with a conversion of such Indebtedness into Equity Interests of the Borrower;
- (d) the Borrower and its Subsidiaries may make scheduled payments of interest, expenses and indemnities in respect of Subordinated Indebtedness to the extent not prohibited by any subordination provisions applicable thereto;
- (e) the Borrower and any of its Subsidiaries may make any payments of any Subject Indebtedness in connection with any refinancing, refunding, renewals or extensions thereof permitted under Section 9.3;
- (f) the Borrower and its Subsidiaries may make scheduled payments of interest in respect of the Junior Capital Raise solely to the extent permitted under Section 8.20;
- (g) the Borrower and its Subsidiaries may make scheduled payments of interest and payments of expenses and indemnities with respect to the 2028 Senior Notes; and
- (h) the Borrower and any of its Subsidiaries may make any payments of any Subject Indebtedness in the minimum amount necessary to ensure that such Subject Indebtedness shall not constitute an “applicable high yield discount obligation” within the meaning of Section 163(i) of the Code or any successor provision.

SECTION 9.15 Amendments, Etc. of Indebtedness. Amend, modify or change in any manner any term or condition of any Subject Indebtedness in any manner materially adverse to the interest of the Administrative Agent and the Lenders.

SECTION 9.16 Use of Proceeds. Directly or indirectly, use the proceeds of any Extension of Credit (a) in furtherance of an offer, payment, promise to pay, or authorization of the payment or giving of money, or anything else of value, to any Person in violation of any Anti-Corruption Laws, (b) for the purpose of funding, financing or facilitating any activities, business or transaction of or with any Sanctioned Person, or in any Sanctioned Country, except, in each case, to the extent licensed or otherwise approved or not prohibited by the applicable authority imposing such Sanctions, or (c) in any manner that would result in the violation of any Sanctions applicable to any party hereto.

ARTICLE X

DEFAULT AND REMEDIES

SECTION 10.1 Events of Default. Each of the following shall constitute an Event of Default:

(a) Non-Payment. The Borrower or any other Credit Party fails to pay (i) when and as required to be paid herein, any amount of principal of any Loan or any L/C Obligation or deposit any funds as Cash Collateral in respect of L/C Obligations, or (ii) within five (5) Business Days after the same becomes due, any interest on any Loan or on any L/C Obligation, any fee due hereunder or any other amount payable hereunder or under any other Loan Document (excluding any fee in an amount of less than \$2,000); or

(b) Specific Covenants. The Borrower or any other Credit Party fails to perform or observe any term, covenant or agreement contained in any of Section 8.1(f), 8.2(a), 8.3(a), 8.5(a) (with respect to the Credit Parties only), 8.10, 8.11, 8.12, 8.18, 8.19, 8.20 or 8.21 or Article IX; provided that, notwithstanding anything to the contrary contained herein, with respect to the first two (2) occasions that any single violation of Section 9.11(c) may occur during the period from the Fourth Amendment Effective Date through February 29, 2024, any such violation or Section 9.11(d) shall not constitute an Event of Default hereunder unless the Borrower fails to comply with such the applicable covenant for the second Measurement Period immediately following such test period as well; or

(c) Other Defaults. Any Credit Party fails to perform or observe any other covenant or agreement (not specified in subsection (a) or (b) above) contained in any Loan Document on its part to be performed or observed and such failure continues unremedied or unwaived for thirty (30) days; or

(d) Representations and Warranties. Any representation, warranty, certification or statement of fact made or deemed made by or on behalf of the Borrower or any other Credit Party herein or in any other Loan Document, or in any certificate furnished by it at any time under or in connection herewith or therewith shall be incorrect or misleading in any material respect (or in any respect if such representation and warranty is qualified by materiality or Material Adverse Effect) on or as of the date made or deemed made; or

(e) Cross-Default. (i) Any Credit Party or any Subsidiary thereof (A) fails to make any payment when due (whether by scheduled maturity, required prepayment, acceleration, demand, or otherwise), beyond any applicable grace periods, in respect of any Indebtedness or Guarantee (other than Indebtedness hereunder and Indebtedness under Hedge Agreements) having an aggregate principal amount (including undrawn committed or available amounts and including amounts owing to all creditors

under any combined or syndicated credit arrangement) of more than the Threshold Amount, or (B) fails to observe or perform any other agreement or condition relating to any such Indebtedness or Guarantee or contained in any instrument or agreement evidencing, securing or relating thereto, or any other event occurs, the effect of which default or other event is to cause, or to permit the holder or holders of such Indebtedness or the beneficiary or beneficiaries of such Guarantee (or a trustee or agent on behalf of such holder or holders or beneficiary or beneficiaries) to cause, with the giving of notice if required, such Indebtedness to be demanded or to become due or to be repurchased, prepaid, defeased or redeemed (automatically or otherwise), or an offer to repurchase, prepay, defease or redeem such Indebtedness to be made, prior to its stated maturity, or such Guarantee to become payable or cash collateral in respect thereof to be demanded; provided that any such failure set forth in clauses (A) or clause (B) remains unremedied and is not waived by the holders or required holders of such Indebtedness prior to any termination of the Revolving Credit Commitments or acceleration of the Loans pursuant to Section 10.2; or (ii) there occurs under any Hedge Agreement an Early Termination Date (as defined in such Hedge Agreement) resulting from (A) any event of default under such Hedge Agreement as to which a Credit Party or any Subsidiary thereof is the Defaulting Party (as defined in such Hedge Agreement) or (B) any Termination Event (as so defined) under such Hedge Agreement as to which a Credit Party or any Subsidiary thereof is an Affected Party (as so defined) and, in either event, the Swap Termination Value owed by such Credit Party or such Subsidiary as a result thereof is greater than the Threshold Amount and such occurrence remains unremedied or is not waived by the counterparty to such Hedge Agreement prior to any termination of the Revolving Credit Commitments or acceleration of the Loans pursuant to Section 10.2; or

(f) **Insolvency Proceedings, Etc.** Any Credit Party or any of its Subsidiaries (other than any Immaterial Subsidiary that is not a Credit Party) institutes or consents to the institution of any proceeding under any Debtor Relief Law, or makes an assignment for the benefit of creditors; or applies for or consents to the appointment of any receiver, trustee, custodian, conservator, liquidator, rehabilitator or similar officer for it or for all or any material part of its property; or any receiver, trustee, custodian, conservator, liquidator, rehabilitator or similar officer is appointed without the application or consent of such Person and the appointment continues undischarged or unstayed for sixty (60) calendar days; or any proceeding under any Debtor Relief Law relating to any such Person or to all or any material part of its property is instituted without the consent of such Person and continues undismissed or unstayed for 60 calendar days, or an order for relief is entered in any such proceeding; or

(g) **Inability to Pay Debts; Attachment.** (i) Any Credit Party or any Subsidiary thereof (other than any Immaterial Subsidiary that is not a Credit Party) becomes unable or admits in writing its inability or fails generally to pay its debts as they become due, or (ii) any writ or warrant of attachment or execution or similar process is issued or levied against all or any material part of the property of any such Person and is not released, vacated or fully bonded within forty-five (45) days after its issue or levy; or

(h) **Judgments.** There is entered against any Credit Party or any Subsidiary thereof (other than an Immaterial Subsidiary that is not a Credit Party) (i) one or more final judgments or orders for the payment of money in an aggregate amount (as to all such judgments or orders) exceeding the Threshold Amount (to the extent not covered by independent third-party insurance as to which the insurer does not dispute coverage), or (ii) any one or more non-monetary final judgments that have, or would reasonably be expected to have, individually or in the aggregate, a Material Adverse Effect and, in either case, (A) enforcement proceedings are commenced by any creditor upon such judgment or order, or (B) there is a period of ten (10) consecutive days during which a stay of enforcement of such judgment, by reason of a pending appeal or otherwise, is not in effect; or

(i) **ERISA.** (i) An ERISA Event occurs with respect to a Pension Plan or Multiemployer Plan which has resulted or would reasonably be expected to result in liability of the Borrower under Title

IV of ERISA to such Pension Plan, such Multiemployer Plan or the PBGC in an aggregate amount in excess of the Threshold Amount, or (ii) the Borrower or any ERISA Affiliate fails to pay when due, after the expiration of any applicable grace period, any installment payment with respect to its withdrawal liability under Section 4201 of ERISA under a Multiemployer Plan in an aggregate amount in excess of the Threshold Amount; or

(j) Invalidity of Loan Documents. Any provision of any Loan Document, at any time after its execution and delivery and for any reason other than as expressly permitted hereunder or thereunder or satisfaction in full of all the Obligations and the termination of the Commitments, ceases to be in full force and effect; or any Credit Party expressly contests the validity or enforceability of any provision of any Loan Document; or any Credit Party denies that it has any or further liability or obligation under any provision of any Loan Document, or purports to revoke, terminate or rescind any provision of any Loan Document; or

(k) Change of Control. There occurs any Change of Control; or

(l) Collateral Documents. Any Collateral Document after delivery thereof pursuant to Section 6.1 or 8.12 shall for any reason (other than pursuant to the terms thereof) cease to create a valid and perfected first priority Lien (subject to Permitted Liens) on any material portion of the Collateral purported to be covered thereby; or

(m) Product Recall. Any mandatory product recall shall be required pursuant to any order or directive of any Governmental Authority affecting the products manufactured, sold or distributed by the Borrower or any of its Subsidiaries, if the aggregate sales price of the products so recalled shall, individually or together with all other similar recalls of such products during any twelve consecutive month period, equal or exceed \$50,000,000; or

(n) BioThrax/AV7909. The termination or expiration of, or the receipt of any notice by the Borrower or any Subsidiary to terminate, any Material Contract of the Borrower or any Subsidiary for the sale of BioThrax or AV7909 to any Governmental Authority of the Federal Government of the United States, to the extent a reasonably suitable replacement contract (in the reasonable judgment of the Borrower in good faith) with a Governmental Authority is not entered into by the Borrower or such Subsidiary within thirty (30) days after such termination or expiration of, or receipt of notice to terminate, such Material Contract or, if on the termination of such 30-day period, the parties to such Material Contract are engaging in active negotiations to extend or replace such Material Contract (as determined by the Borrower in good faith), within ninety (90) days after such termination or expiration of, or receipt of notice to terminate, such Material Contract; provided that AV7909 shall be deemed to be a reasonably suitable replacement for BioThrax to the extent that AV7909 has either obtained (x) full FDA approval or (y) FDA emergency use authorization pursuant to Section 564 of the FFDCA; provided further, that no Event of Default under this Section 10.1(n) shall be deemed to have occurred to the extent that the Borrower is in compliance with the financial covenants set forth in Section 9.11 as of the last day of the most recently ended Measurement Period prior to such termination or expiration for which financial statements have been delivered pursuant to Section 8.1(a), (b) or (d), after giving pro forma effect, as if such termination or expiration occurred on the first day of such Measurement Period, to the loss of Consolidated EBITDA attributable to such terminated or expired Material Contract(s), including income statement items attributable to such Material Contract or the products subject thereto, as determined by the Borrower in good faith and believed by the Borrower to be reasonable; or

(o) Subordination. (i) The subordination provisions of the documents evidencing or governing any Subordinated Indebtedness (the “Subordination Provisions”) shall, in whole or in part, terminate, cease to be effective or cease to be legally valid, binding and enforceable against any holder of

the applicable Subordinated Indebtedness; or (ii) the Borrower or any other Credit Party shall expressly disavow or contest in any manner (A) the effectiveness, validity or enforceability of any of the Subordination Provisions, (B) that the Subordination Provisions exist for the benefit of the Administrative Agent, the Lenders and the Issuing Lenders or (C) that all payments of principal of or premium and interest on the applicable Subordinated Indebtedness, or realized from the liquidation of any property of any Credit Party, shall be subject to any of the Subordination Provisions.

SECTION 10.2 Remedies. Upon the occurrence and during the continuance of an Event of Default, with the consent of the Required Lenders, the Administrative Agent may, or upon the request of the Required Lenders, the Administrative Agent shall, by notice to the Borrower:

(a) Acceleration; Termination of Credit Facility. Terminate the Revolving Credit Commitment and declare the principal of and interest on the Loans and the Reimbursement Obligations at the time outstanding, and all other amounts owed to the Lenders and to the Administrative Agent under this Agreement or any of the other Loan Documents (including, without limitation, all L/C Obligations, whether or not the beneficiaries of the then outstanding Letters of Credit shall have presented or shall be entitled to present the documents required thereunder) and all other Obligations, to be forthwith due and payable, whereupon the same shall immediately become due and payable without presentment, demand, protest or other notice of any kind, all of which are expressly waived by each Credit Party, anything in this Agreement or the other Loan Documents to the contrary notwithstanding, and terminate the Credit Facility and any right of the Borrower to request borrowings or Letters of Credit thereunder; provided, that upon the occurrence of an Event of Default specified in Section 10.1(f) or (g), the Credit Facility shall be automatically terminated and all Obligations shall automatically become due and payable without presentment, demand, protest or other notice of any kind, all of which are expressly waived by each Credit Party, anything in this Agreement or in any other Loan Document to the contrary notwithstanding.

(b) Letters of Credit. With respect to all Letters of Credit with respect to which presentment for honor shall not have occurred at the time of an acceleration pursuant to the preceding paragraph, demand that the Borrower shall at such time deposit in a Cash Collateral account opened by the Administrative Agent an amount equal to the Minimum Collateral Amount of the aggregate then undrawn and unexpired amount of such Letters of Credit. Amounts held in such Cash Collateral account shall be applied by the Administrative Agent to the payment of drafts drawn under such Letters of Credit, and the unused portion thereof after all such Letters of Credit shall have expired or been fully drawn upon, if any, shall be applied to repay the other Secured Obligations in accordance with Section 10.4. After all such Letters of Credit shall have expired or been fully drawn upon, the Reimbursement Obligation shall have been satisfied and all other Secured Obligations shall have been paid in full, the balance, if any, in such Cash Collateral account shall be returned to the Borrower.

(c) General Remedies. Exercise on behalf of the Secured Parties all of its other rights and remedies under this Agreement, the other Loan Documents and Applicable Law, in order to satisfy all of the Secured Obligations.

SECTION 10.3 Rights and Remedies Cumulative; Non-Waiver; etc.

(a) The enumeration of the rights and remedies of the Administrative Agent and the Lenders set forth in this Agreement is not intended to be exhaustive and the exercise by the Administrative Agent and the Lenders of any right or remedy shall not preclude the exercise of any other rights or remedies, all of which shall be cumulative, and shall be in addition to any other right or remedy given hereunder or under the other Loan Documents or that may now or hereafter exist at law or in equity or by suit or otherwise. No delay or failure to take action on the part of the Administrative Agent or any Lender in

exercising any right, power or privilege shall operate as a waiver thereof, nor shall any single or partial exercise of any such right, power or privilege preclude any other or further exercise thereof or the exercise of any other right, power or privilege or shall be construed to be a waiver of any Event of Default. No course of dealing between the Borrower, the Administrative Agent and the Lenders or their respective agents or employees shall be effective to change, modify or discharge any provision of this Agreement or any of the other Loan Documents or to constitute a waiver of any Event of Default.

(b) Notwithstanding anything to the contrary contained herein or in any other Loan Document, the authority to enforce rights and remedies hereunder and under the other Loan Documents against the Credit Parties or any of them shall be vested exclusively in, and all actions and proceedings at law in connection with such enforcement shall be instituted and maintained exclusively by, the Administrative Agent in accordance with Section 10.2 for the benefit of all the Lenders and the Issuing Lenders; provided that the foregoing shall not prohibit (i) the Administrative Agent from exercising on its own behalf the rights and remedies that inure to its benefit (solely in its capacity as Administrative Agent) hereunder and under the other Loan Documents, (ii) any Issuing Lender or the Swingline Lender from exercising the rights and remedies that inure to its benefit (solely in its capacity as an Issuing Lender or Swingline Lender, as the case may be) hereunder and under the other Loan Documents, (iii) any Lender from exercising setoff rights in accordance with Section 12.4 (subject to the terms of Section 5.6), or (iv) any Lender from filing proofs of claim or appearing and filing pleadings on its own behalf during the pendency of a proceeding relative to any Credit Party under any Debtor Relief Law; and provided, further, that if at any time there is no Person acting as Administrative Agent hereunder and under the other Loan Documents, then (A) the Required Lenders shall have the rights otherwise ascribed to the Administrative Agent pursuant to Section 10.2 and (B) in addition to the matters set forth in clauses (ii), (iii) and (iv) of the preceding proviso and subject to Section 5.6, any Lender may, with the consent of the Required Lenders, enforce any rights and remedies available to it and as authorized by the Required Lenders.

SECTION 10.4 Crediting of Payments and Proceeds. In the event that the Obligations have been accelerated pursuant to Section 10.2 or the Administrative Agent or any Lender has exercised any remedy set forth in this Agreement or any other Loan Document, all payments received on account of the Secured Obligations and all net proceeds from the enforcement of the Secured Obligations shall, subject to the provisions of Sections 5.14, 5.15 and 8.21(a), be applied by the Administrative Agent as follows:

First, to payment of that portion of the Secured Obligations constituting fees, indemnities, expenses and other amounts, including attorney fees, payable to the Administrative Agent in its capacity as such;

Second, to payment of that portion of the Secured Obligations constituting fees (other than Commitment Fees and Letter of Credit fees payable to the Revolving Credit Lenders), indemnities and other amounts (other than principal and interest) payable to the Lenders, the Issuing Lenders and the Swingline Lender under the Loan Documents, including attorney fees, ratably among the Lenders, the Issuing Lenders and the Swingline Lender in proportion to the respective amounts described in this clause Second payable to them;

Third, to payment of that portion of the Secured Obligations constituting accrued and unpaid Commitment Fees, Letter of Credit fees payable to the Revolving Credit Lenders and interest on the Loans and Reimbursement Obligations, ratably among the Lenders, the Issuing Lenders and the Swingline Lender in proportion to the respective amounts described in this clause Third payable to them;

Fourth, to payment of that portion of the Secured Obligations constituting unpaid principal of the Loans, Reimbursement Obligations and payment obligations then owing under Secured Hedge

Agreements and Secured Cash Management Agreements and to Cash Collateralize any L/C Obligations then outstanding, ratably among the holders of such obligations in proportion to the respective amounts described in this clause Fourth payable to them; and

Last, the balance, if any, after all of the Secured Obligations have been indefeasibly paid in full, to the Borrower or as otherwise required by Applicable Law.

Notwithstanding the foregoing, Secured Obligations arising under Secured Cash Management Agreements and Secured Hedge Agreements shall be excluded from the application described above if the Administrative Agent has not received written notice thereof, together with such supporting documentation as the Administrative Agent may request, from the applicable Cash Management Bank or Hedge Bank, as the case may be following such acceleration or exercise of remedies and at least three (3) Business Days prior to the application of the proceeds thereof. Each Cash Management Bank or Hedge Bank not a party to this Agreement that has given the notice contemplated by the preceding sentence shall, by such notice, be deemed to have acknowledged and accepted the appointment of the Administrative Agent pursuant to the terms of Article XI for itself and its Affiliates as if a "Lender" party hereto.

SECTION 10.5 Administrative Agent May File Proofs of Claim. In case of the pendency of any proceeding under any Debtor Relief Law or any other judicial proceeding relative to any Credit Party, the Administrative Agent (irrespective of whether the principal of any Loan or L/C Obligation shall then be due and payable as herein expressed or by declaration or otherwise and irrespective of whether the Administrative Agent shall have made any demand on any Credit Party) shall be entitled and empowered (but not obligated) by intervention in such proceeding or otherwise:

- (a) to file and prove a claim for the whole amount of the principal and interest owing and unpaid in respect of the Loans, L/C Obligations and all other Secured Obligations that are owing and unpaid and to file such other documents as may be necessary or advisable in order to have the claims of the Lenders, the Issuing Lenders and the Administrative Agent (including any claim for the reasonable compensation, expenses, disbursements and advances of the Lenders, the Issuing Lenders and the Administrative Agent and their respective agents and counsel and all other amounts due the Lenders, the Issuing Lenders and the Administrative Agent under Sections 3.3, 5.3 and 12.3) allowed in such judicial proceeding; and
- (b) to collect and receive any monies or other property payable or deliverable on any such claims and to distribute the same;

and any custodian, receiver, assignee, trustee, liquidator, sequestrator or other similar official in any such judicial proceeding is hereby authorized by each Lender and each Issuing Lender to make such payments to the Administrative Agent and, in the event that the Administrative Agent shall consent to the making of such payments directly to the Lenders and the Issuing Lenders, to pay to the Administrative Agent any amount due for the reasonable compensation, expenses, disbursements and advances of the Administrative Agent and its agents and counsel, and any other amounts due the Administrative Agent under Sections 3.3, 5.3 and 12.3.

SECTION 10.6 Credit Bidding.

- (a) The Administrative Agent, on behalf of itself and the Secured Parties, shall have the right, exercisable at the direction of the Required Lenders, to credit bid and purchase for the benefit of the Administrative Agent and the Secured Parties all or any portion of Collateral at any sale thereof conducted by the Administrative Agent under the provisions of the UCC, including pursuant to Sections

9-610 or 9-620 of the UCC, at any sale thereof conducted under the provisions of the United States Bankruptcy Code, including Section 363 thereof, or a sale under a plan of reorganization, or at any other sale or foreclosure conducted by the Administrative Agent (whether by judicial action or otherwise) in accordance with Applicable Law. Such credit bid or purchase may be completed through one or more acquisition vehicles formed by the Administrative Agent to make such credit bid or purchase and, in connection therewith, the Administrative Agent is authorized, on behalf of itself and the other Secured Parties, to adopt documents providing for the governance of the acquisition vehicle or vehicles, and assign the applicable Secured Obligations to any such acquisition vehicle in exchange for Equity Interests and/or debt issued by the applicable acquisition vehicle (which shall be deemed to be held for the ratable account of the applicable Secured Parties on the basis of the Secured Obligations so assigned by each Secured Party); provided that any actions by the Administrative Agent with respect to such acquisition vehicle or vehicles, including any disposition of the assets or Equity Interests thereof, shall be governed, directly or indirectly, by the vote of the Required Lenders, irrespective of the termination of this Agreement and without giving effect to the limitations on actions by the Required Lenders contained in Section 12.2.

(b) Each Lender hereby agrees, on behalf of itself and each of its Affiliates that is a Secured Party, that, except as otherwise provided in any Loan Document or with the written consent of the Administrative Agent and the Required Lenders, it will not take any enforcement action, accelerate obligations under any of the Loan Documents, or exercise any right that it might otherwise have under Applicable Law to credit bid at foreclosure sales, UCC sales or other similar dispositions of Collateral.

ARTICLE XI

THE ADMINISTRATIVE AGENT

SECTION 11.1 Appointment and Authority.

(a) Each of the Lenders and each Issuing Lender hereby irrevocably appoints, designates and authorizes Wells Fargo to act on its behalf as the Administrative Agent hereunder and under the other Loan Documents and authorizes the Administrative Agent to take such actions on its behalf and to exercise such powers as are delegated to the Administrative Agent by the terms hereof or thereof, together with such actions and powers as are reasonably incidental thereto. The provisions of this Article are solely for the benefit of the Administrative Agent, the Arrangers, the Lenders, the Issuing Lenders, and their respective Related Parties, and neither the Borrower nor any Subsidiary thereof shall have rights as a third-party beneficiary of any of such provisions. It is understood and agreed that the use of the term "agent" herein or in any other Loan Documents (or any other similar term) with reference to the Administrative Agent is not intended to connote any fiduciary or other implied (or express) obligations arising under agency doctrine of any Applicable Law. Instead such term is used as a matter of market custom, and is intended to create or reflect only an administrative relationship between contracting parties.

(b) The Administrative Agent shall also act as the "collateral agent" under the Loan Documents, and each of the Lenders (including in its capacity as a potential Hedge Bank or Cash Management Bank) and the Issuing Lenders hereby irrevocably appoints and authorizes the Administrative Agent to act as the agent of such Lender and such Issuing Lender for purposes of acquiring, holding and enforcing any and all Liens on Collateral granted by any of the Credit Parties to secure any of the Secured Obligations, together with such powers and discretion as are reasonably incidental thereto (including, without limitation, to enter into additional Loan Documents or supplements to existing Loan Documents on behalf of the Secured Parties). In this connection, the Administrative Agent, as "collateral agent" and any co-agents, sub-agents and attorneys-in-fact appointed by the

Administrative Agent pursuant to this Article XI for purposes of holding or enforcing any Lien on the Collateral (or any portion thereof) granted under the Collateral Documents (or for exercising any rights and remedies thereunder at the direction of the Administrative Agent), shall be entitled to the benefits of all provisions of Articles XI and XII (including Section 12.3, as though such co-agents, sub-agents and attorneys-in-fact were the “collateral agent” under the Loan Documents) as if set forth in full herein with respect thereto.

SECTION 11.2 Rights as a Lender. The Person serving as the Administrative Agent hereunder shall have the same rights and powers in its capacity as a Lender as any other Lender and may exercise the same as though it were not the Administrative Agent and the term “Lender” or “Lenders” shall, unless otherwise expressly indicated or unless the context otherwise requires, include the Person serving as the Administrative Agent hereunder in its individual capacity. Such Person and its Affiliates may accept deposits from, lend money to, own securities of, act as the financial advisor or in any other advisory capacity for and generally engage in any kind of banking, trust, financial advisory, underwriting, capital markets or other business with the Borrower or any Subsidiary or other Affiliate thereof as if such Person were not the Administrative Agent hereunder and without any duty to account therefor to the Lenders or to provide notice to or consent of the Lenders with respect thereto.

SECTION 11.3 Exculpatory Provisions.

(a) The Administrative Agent, the Arrangers and their respective Related Parties shall not have any duties or obligations except those expressly set forth herein and in the other Loan Documents, and its duties hereunder and thereunder shall be administrative in nature. Without limiting the generality of the foregoing, the Administrative Agent, the Arrangers and their respective Related Parties:

(i) shall not be subject to any agency, trust, fiduciary or other implied duties, regardless of whether a Default or Event of Default has occurred and is continuing;

(ii) shall not have any duty to take any discretionary action or exercise any discretionary powers, except discretionary rights and powers expressly contemplated hereby or by the other Loan Documents that the Administrative Agent is required to exercise as directed in writing by the Required Lenders (or such other number or percentage of the Lenders as shall be expressly provided for herein or in the other Loan Documents), provided that the Administrative Agent shall not be required to take any action that, in its opinion or the opinion of its counsel, may expose the Administrative Agent to liability or that is contrary to any Loan Document or Applicable Law, including for the avoidance of doubt any action that may be in violation of the automatic stay under any Debtor Relief Law or that may effect a forfeiture, modification or termination of property of a Defaulting Lender in violation of any Debtor Relief Law;

(iii) shall not, have any duty to disclose, and shall not be liable for the failure to disclose to any Lender, any Issuing Lender or any other Person, any credit or other information relating concerning the business, prospects, operations, properties, assets, financial or other condition or creditworthiness of the Borrower or any of its Subsidiaries or Affiliates that is communicated to, obtained by or otherwise in the possession of the Person serving as the Administrative Agent, the Arranger or their respective Related Parties in any capacity, except for notices, reports and other documents that are required to be furnished by the Administrative Agent to the Lenders pursuant to the express provisions of this Agreement;

(iv) shall not be required to account to any Lender or any Issuing Lender for any sum or profit received by the Administrative Agent for its own account.

(b) The Administrative Agent, the Arrangers and their respective Related Parties shall not be liable for any action taken or not taken by it under or in connection with this Agreement or any other Loan Document or the transactions contemplated hereby or thereby (i) with the consent or at the request of the Required Lenders (or such other number or percentage of the Lenders as shall be necessary, or as the Administrative Agent shall believe in good faith shall be necessary, under the circumstances as provided in Section 12.2 and Section 10.2) or (ii) in the absence of its own gross negligence or willful misconduct as determined by a court of competent jurisdiction by final nonappealable judgment. The Administrative Agent shall be deemed not to have knowledge of any Default or Event of Default unless and until notice describing such Default or Event of Default and indicating that such notice is a "Notice of Default" is given to the Administrative Agent by the Borrower, a Lender or an Issuing Lender.

(c) The Administrative Agent, the Arrangers and their respective Related Parties shall not be responsible for or have any duty or obligations to any Lender or Participant or any other Person to ascertain or inquire into (i) any statement, warranty or representation made in or in connection with this Agreement or any other Loan Document, (ii) the contents of any certificate, report or other document delivered hereunder or thereunder or in connection herewith or therewith (including, without limitation, any report provided to it by an Issuing Lender pursuant to Section 3.9), (iii) the performance or observance of any of the covenants, agreements or other terms or conditions set forth herein or therein or the occurrence of any Default or Event of Default, (iv) the validity, enforceability, effectiveness or genuineness of this Agreement, any other Loan Document or any other agreement, instrument or document, or creation, perfection or priority of any Lien purported to be created by the Collateral Documents, (v) the value or sufficiency of any Collateral, (vi) the satisfaction of any condition set forth in Article VI or elsewhere herein, other than to confirm receipt of items expressly required to be delivered to the Administrative Agent or (vii) the utilization of any Issuing Lender's L/C Commitment (it being understood and agreed that each Issuing Lender shall monitor compliance with its own L/C Commitment without any further action by the Administrative Agent).

SECTION 11.4 Reliance by the Administrative Agent. The Administrative Agent shall be entitled to rely upon, shall be fully protected in relying and shall not incur any liability for relying upon, any notice, request, certificate, consent, communication, statement, instrument, document or other writing (including any electronic message, Internet or intranet website posting or other distribution) believed by it to be genuine and to have been signed, sent or otherwise authenticated by the proper Person, including any certification pursuant to Section 11.9. The Administrative Agent also may rely upon any statement made to it orally or by telephone and believed by it to have been made by the proper Person, and shall be fully protected in relying and shall not incur any liability for relying thereon. In determining compliance with any condition hereunder to the making of a Loan, or the issuance, extension, renewal or increase of a Letter of Credit, that by its terms must be fulfilled to the satisfaction of a Lender or an Issuing Lender, the Administrative Agent may presume that such condition is satisfactory to such Lender or such Issuing Lender unless the Administrative Agent shall have received notice to the contrary from such Lender or such Issuing Lender prior to the making of such Loan or the issuance of such Letter of Credit. The Administrative Agent may consult with legal counsel (who may be counsel for the Borrower), independent accountants and other experts selected by it, and shall not be liable for any action taken or not taken by it in accordance with the advice of any such counsel, accountants or experts. Each Lender or Issuing Lender that has signed this Agreement or a signature page to an Assignment and Assumption or any other Loan Document pursuant to which it is to become a Lender or Issuing Lender hereunder shall be deemed to have consented to, approved and accepted and shall be deemed satisfied with each document or other matter required thereunder to be consented to, approved or accepted by such Lender or Issuing Lender or that is to be acceptable or satisfactory to such Lender or Issuing Lender.

SECTION 11.5 Delegation of Duties. The Administrative Agent may perform any and all of its duties and exercise its rights and powers hereunder or under any other Loan Document by or through any one or more sub-agents appointed by the Administrative Agent. The Administrative Agent and any such sub-agent may perform any and all of its duties and exercise its rights and powers by or through their respective Related Parties. The exculpatory provisions of this Article shall apply to any such sub-agent and to the Related Parties of the Administrative Agent and any such sub-agent, and shall apply to their respective activities in connection with the syndication of the Credit Facility as well as activities as Administrative Agent. The Administrative Agent shall not be responsible for the negligence or misconduct of any sub-agents except to the extent that a court of competent jurisdiction determines in a final and nonappealable judgment that the Administrative Agent acted with gross negligence or willful misconduct in the selection of such sub-agents.

SECTION 11.6 Resignation of Administrative Agent.

(a) The Administrative Agent may at any time give notice of its resignation to the Lenders, the Issuing Lenders and the Borrower. Upon receipt of any such notice of resignation, the Required Lenders shall have the right, in consultation with the Borrower, to appoint a successor, which shall be a bank with an office in the United States, or an Affiliate of any such bank or financial institution with an office in the United States. If no such successor shall have been so appointed by the Required Lenders and shall have accepted such appointment within 30 days after the retiring Administrative Agent gives notice of its resignation (or such earlier day as shall be agreed by the Required Lenders) (the “Resignation Effective Date”), then the retiring Administrative Agent may (but shall not be obligated to), on behalf of the Lenders and the Issuing Lenders, appoint a successor Administrative Agent meeting the qualifications set forth above; provided that in no event shall any such successor Administrative Agent be a Defaulting Lender. Whether or not a successor has been appointed, such resignation shall become effective in accordance with such notice on the Resignation Effective Date.

(b) If the Person serving as Administrative Agent is a Defaulting Lender pursuant to clause (d) of the definition thereof, the Required Lenders may, to the extent permitted by Applicable Law, by notice in writing to the Borrower and such Person, remove such Person as Administrative Agent and, in consultation with the Borrower, appoint a successor. If no such successor shall have been so appointed by the Required Lenders and shall have accepted such appointment within 30 days (or such earlier day as shall be agreed by the Required Lenders) (the “Removal Effective Date”), then such removal shall nonetheless become effective in accordance with such notice on the Removal Effective Date.

(c) With effect from the Resignation Effective Date or the Removal Effective Date (as applicable), (i) the retiring or removed Administrative Agent shall be discharged from its duties and obligations hereunder and under the other Loan Documents (except that in the case of any collateral security held by the Administrative Agent on behalf of the Lenders or the Issuing Lenders under any of the Loan Documents, the retiring or removed Administrative Agent shall continue to hold such collateral security until such time as a successor Administrative Agent is appointed) and (ii) except for any indemnity payments or other amounts then owed to the retiring or removed Administrative Agent, all payments, communications and determinations provided to be made by, to or through the Administrative Agent shall instead be made by or to each Lender and each Issuing Lender directly, until such time, if any, as the Required Lenders appoint a successor Administrative Agent as provided for above. Upon the acceptance of a successor’s appointment as Administrative Agent hereunder, such successor shall succeed to and become vested with all of the rights, powers, privileges and duties of the retiring or removed Administrative Agent (other than any rights to indemnity payments or other amounts owed to the retiring or removed Administrative Agent as of the Resignation Effective Date or the Removal Effective Date, as applicable), and the retiring or removed Administrative Agent shall be discharged from all of its duties and obligations hereunder or under the other Loan Documents. The fees payable by the

Borrower to a successor Administrative Agent shall be the same as those payable to its predecessor unless otherwise agreed between the Borrower and such successor. After the retiring or removed Administrative Agent's resignation or removal hereunder and under the other Loan Documents, the provisions of this Article and Section 12.3 shall continue in effect for the benefit of such retiring or removed Administrative Agent, its sub-agents and their respective Related Parties in respect of any actions taken or omitted to be taken by any of them while the retiring or removed Administrative Agent was acting as Administrative Agent or relating to its duties as Administrative Agent that are carried out following its retirement or removal, including, without limitation, any actions taken with respect to acting as collateral agent or otherwise holding any Collateral on behalf of any of the Secured Parties or in respect of any actions taken in connection with the transfer of agency to a replacement or successor Administrative Agent.

(d) Any resignation by, or removal of, Wells Fargo as Administrative Agent pursuant to this Section shall also constitute its resignation as an Issuing Lender and Swingline Lender. Upon the acceptance of a successor's appointment as Administrative Agent hereunder, (i) such successor shall succeed to and become vested with all of the rights, powers, privileges and duties of the retiring Issuing Lender, if in its sole discretion it elects to, and Swingline Lender, (ii) the retiring Issuing Lender and Swingline Lender shall be discharged from all of their respective duties and obligations hereunder or under the other Loan Documents, and (iii) the successor Issuing Lender, if in its sole discretion it elects to, shall issue letters of credit in substitution for the Letters of Credit, if any, outstanding at the time of such succession or make other arrangements satisfactory to the retiring Issuing Lender to effectively assume the obligations of the retiring Issuing Lender with respect to such Letters of Credit.

SECTION 11.7 Non-Reliance on Administrative Agent and Other Lenders. Each Lender and each Issuing Lender expressly acknowledges that none of the Administrative Agent, any Arranger or any of their respective Related Parties has made any representations or warranties to it and that no act taken or failure to act by the Administrative Agent, any Arranger or any of their respective Related Parties, including any consent to, and acceptance of any assignment or review of the affairs of the Borrower and its Subsidiaries or Affiliates shall be deemed to constitute a representation or warranty of the Administrative Agent, any Arranger or any of their respective Related Parties to any Lender, any Issuing Lender or any other Secured Party as to any matter, including whether the Administrative Agent, any Arranger or any of their respective Related Parties have disclosed material information in their (or their respective Related Parties') possession. Each Lender and each Issuing Lender expressly acknowledges, represents and warrants to the Administrative Agent and the Arrangers that (a) the Loan Documents set forth the terms of a commercial lending facility, (b) it is engaged in making, acquiring, purchasing or holding commercial loans in the ordinary course and is entering into this Agreement and the other Loan Documents to which it is a party as a Lender for the purpose of making, acquiring, purchasing and/or holding the commercial loans set forth herein as may be applicable to it, and not for the purpose of making, acquiring, purchasing or holding any other type of financial instrument, (c) it is sophisticated with respect to decisions to make, acquire, purchase or hold the commercial loans applicable to it and either it or the Person exercising discretion in making its decisions to make, acquire, purchase or hold such commercial loans is experienced in making, acquiring, purchasing or holding commercial loans, (d) it has, independently and without reliance upon the Administrative Agent, any Arranger, any other Lender or any of their respective Related Parties and based on such documents and information as it has deemed appropriate, made its own credit analysis and appraisal of, and investigations into, the business, prospects, operations, property, assets, liabilities, financial and other condition and creditworthiness of the Borrower and its Subsidiaries, all applicable bank or other regulatory Applicable Laws relating to the Transactions and the transactions contemplated by this Agreement and the other Loan Documents and (e) it has made its own independent decision to enter into this Agreement and the other Loan Documents to which it is a party and to extend credit hereunder and thereunder. Each Lender and each Issuing Lender also acknowledges that (i) it will, independently and without reliance upon the Administrative Agent, any

Arranger or any other Lender or any of their respective Related Parties (A) continue to make its own credit analysis, appraisals and decisions in taking or not taking action under or based upon this Agreement, any other Loan Document or any related agreement or any document furnished hereunder or thereunder based on such documents and information as it shall from time to time deem appropriate and its own independent investigations and (B) continue to make such investigations and inquiries as it deems necessary to inform itself as to the Borrower and its Subsidiaries and (ii) it will not assert any claim in contravention of this Section 11.7.

SECTION 11.8 No Other Duties, Etc. Anything herein to the contrary notwithstanding, none of the syndication agents, documentation agents, co-agents, arrangers or bookrunners listed on the cover page hereof shall have any powers, duties or responsibilities under this Agreement or any of the other Loan Documents, except in its capacity, as applicable, as the Administrative Agent, a Lender or an Issuing Lender hereunder, but each such Person shall have the benefit of the indemnities and exculpatory provisions hereof.

SECTION 11.9 Collateral and Guaranty Matters.

(a) Each of the Lenders (including in its or any of its Affiliate's capacities as a potential Hedge Bank or Cash Management Bank) irrevocably authorize the Administrative Agent, at its option and in its discretion:

(i) to release any Lien on any Collateral granted to or held by the Administrative Agent, for the ratable benefit of the Secured Parties, under any Loan Document (A) upon the termination of the Revolving Credit Commitment and payment in full of all Secured Obligations (other than (1) contingent indemnification obligations and (2) obligations and liabilities under Secured Cash Management Agreements or Secured Hedge Agreements as to which arrangements satisfactory to the applicable Cash Management Bank or Hedge Bank shall have been made) and the expiration or termination of all Letters of Credit (or been Cash Collateralized or for which arrangements satisfactory to the Administrative Agent and the applicable Issuing Lender shall have been made), (B) that is sold or otherwise disposed of or to be sold or otherwise disposed of as part of or in connection with any sale or other Disposition to a Person other than a Credit Party permitted under the Loan Documents, as certified by the Borrower, or (C) if approved, authorized or ratified in writing in accordance with Section 12.2; provided that any release of all or substantially all of the Collateral shall be subject to Section 12.2(h);

(ii) to subordinate any Lien on any Collateral granted to or held by the Administrative Agent under any Loan Document to the holder of any Lien permitted pursuant to Section 9.1(i); provided that any subordination which would have the effect of releasing all or substantially all of the Collateral shall be subject to Section 12.2(h); and

(iii) to release any Guarantor from its obligations under any Loan Documents if such Person (A) ceases to be a Subsidiary as a result of a transaction permitted under the Loan Documents, as certified by the Borrower or (B) is designated as, and qualifies to become, an Immaterial Subsidiary; provided that any release of Guarantors comprising all or substantially all of the credit support for the Secured Obligations shall be subject to Section 12.2(g).

Upon request by the Administrative Agent at any time, the Required Lenders will confirm in writing the Administrative Agent's authority to release or subordinate its interest in particular types or items of property, or to release any Guarantor from its obligations under the Guaranty Agreement pursuant to this Section 11.9. In each case as specified in this Section 11.9, the Administrative Agent will, at the Borrower's expense, execute and deliver to the applicable Credit Party such documents as such Credit

Party may reasonably request to evidence the release of such item of Collateral from the assignment and security interest granted under the Collateral Documents or to subordinate its interest in such item, or to release such Guarantor from its obligations under the Guaranty Agreement, in each case in accordance with the terms of the Loan Documents and this Section 11.9 as certified by the Borrower. In the case of any such sale, transfer or disposal of any property constituting Collateral in a transaction constituting a Disposition permitted pursuant to Section 9.5 to a Person other than a Credit Party, the Liens created by any of the Collateral Documents on such property shall be automatically released without need for further action by any person.

(b) The Administrative Agent shall not be responsible for or have a duty to ascertain or inquire into any representation or warranty regarding the existence, value or collectability of the Collateral, the existence, priority or perfection of the Administrative Agent's Lien thereon, or any certificate prepared by any Credit Party in connection therewith, nor shall the Administrative Agent be responsible or liable to the Lenders for any failure to monitor or maintain any portion of the Collateral.

SECTION 11.10 Secured Hedge Agreements and Secured Cash Management Agreements.
No Cash Management Bank or Hedge Bank that obtains the benefits of Section 10.4 or any Collateral by virtue of the provisions hereof or of any Collateral Document shall have any right to notice of any action or to consent to, direct or object to any action hereunder or under any other Loan Document or otherwise in respect of the Collateral (including the release or impairment of any Collateral), or to notice of or to consent to any amendment, waiver or modification of the provisions hereof or of any Guarantee or any Collateral Document, other than in its capacity as a Lender and, in such case, only to the extent expressly provided in the Loan Documents. The Administrative Agent shall not be required to verify the payment of, or that other satisfactory arrangements have been made with respect to, Secured Cash Management Agreements and Secured Hedge Agreements.

SECTION 11.11 Erroneous Payments.

(a) Each Lender, each Issuing Lender, each other Secured Party and any other party hereto hereby severally agrees that if (i) the Administrative Agent notifies (which such notice shall be conclusive absent manifest error) such Lender or Issuing Lender or any other Secured Party (or the Lender Affiliate of a Secured Party) or any other Person that has received funds from the Administrative Agent or any of its Affiliates, either for its own account or on behalf of a Lender, Issuing Lender or other Secured Party (each such recipient, a "Payment Recipient") that the Administrative Agent has determined in its sole discretion that any funds received by such Payment Recipient were erroneously transmitted to, or otherwise erroneously or mistakenly received by, such Payment Recipient (whether or not known to such Payment Recipient) or (ii) any Payment Recipient receives any payment from the Administrative Agent (or any of its Affiliates) (x) that is in a different amount than, or on a different date from, that specified in a notice of payment, prepayment or repayment sent by the Administrative Agent (or any of its Affiliates) with respect to such payment, prepayment or repayment, as applicable, (y) that was not preceded or accompanied by a notice of payment, prepayment or repayment sent by the Administrative Agent (or any of its Affiliates) with respect to such payment, prepayment or repayment, as applicable, or (z) that such Payment Recipient otherwise becomes aware was transmitted or received in error or by mistake (in whole or in part) then, in each case, an error in payment shall be presumed to have been made (any such amounts specified in clauses (i) or (ii) of this Section 11.11(a), whether received as a payment, prepayment or repayment of principal, interest, fees, distribution or otherwise; individually and collectively, an "Erroneous Payment") then, in each case, such Payment Recipient is deemed to have knowledge of such error at the time of its receipt of such Erroneous Payment; provided that nothing in this Section shall require the Administrative Agent to provide any of the notices specified in clauses (i) or (ii) above. Each Payment Recipient agrees that it shall not assert any right or claim to any Erroneous Payment, and hereby waives any claim, counterclaim, defense or right of set-off or recoupment with

respect to any demand, claim or counterclaim by the Administrative Agent for the return of any Erroneous Payments, including without limitation waiver of any defense based on “discharge for value” or any similar doctrine.

(b) Without limiting the immediately preceding clause (a), each Payment Recipient agrees that, in the case of clause (a)(ii) above, it shall promptly notify the Administrative Agent in writing of such occurrence.

(c) In the case of either clause (a)(i) or (a)(ii) above, such Erroneous Payment shall at all times remain the property of the Administrative Agent and shall be segregated by the Payment Recipient and held in trust for the benefit of the Administrative Agent, and upon demand from the Administrative Agent such Payment Recipient shall (or, shall cause any Person who received any portion of an Erroneous Payment on its behalf to), promptly, but in all events no later than one Business Day thereafter, return to the Administrative Agent the amount of any such Erroneous Payment (or portion thereof) as to which such a demand was made in Same Day Funds and in the currency so received, together with interest thereon in respect of each day from and including the date such Erroneous Payment (or portion thereof) was received by such Payment Recipient to the date such amount is repaid to the Administrative Agent at the Overnight Rate.

(d) In the event that an Erroneous Payment (or portion thereof) is not recovered by the Administrative Agent for any reason, after demand therefor by the Administrative Agent in accordance with immediately preceding clause (c), from any Lender that is a Payment Recipient or an Affiliate of a Payment Recipient (such unrecovered amount as to such Lender, an “Erroneous Payment Return Deficiency”), then at the sole discretion of the Administrative Agent and upon the Administrative Agent’s written notice to such Lender (i) such Lender shall be deemed to have made a cashless assignment of the full face amount of the portion of its Loans (but not its Commitments) of the relevant Class with respect to which such Erroneous Payment was made (the “Erroneous Payment Impacted Class”) to the Administrative Agent or, at the option of the Administrative Agent, the Administrative Agent’s applicable lending affiliate in an amount that is equal to the Erroneous Payment Return Deficiency (or such lesser amount as the Administrative Agent may specify) (such assignment of the Loans (but not Commitments) of the Erroneous Payment Impacted Class, the “Erroneous Payment Deficiency Assignment”) plus any accrued and unpaid interest on such assigned amount, without further consent or approval of any party hereto and without any payment by the Administrative Agent or its applicable lending affiliate as the assignee of such Erroneous Payment Deficiency Assignment. The parties hereto acknowledge and agree that (1) any assignment contemplated in this clause (d) shall be made without any requirement for any payment or other consideration paid by the applicable assignee or received by the assignor, (2) the provisions of this clause (d) shall govern in the event of any conflict with the terms and conditions of Section 12.9 and (3) the Administrative Agent may reflect such assignments in the Register without further consent or action by any other Person.

(e) Each party hereto hereby agrees that (x) in the event an Erroneous Payment (or portion thereof) is not recovered from any Payment Recipient that has received such Erroneous Payment (or portion thereof) for any reason, the Administrative Agent (1) shall be subrogated to all the rights of such Payment Recipient with respect to such amount and (2) is authorized to set off, net and apply any and all amounts at any time owing to such Payment Recipient under any Loan Document, or otherwise payable or distributable by the Administrative Agent to such Payment Recipient from any source, against any amount due to the Administrative Agent under this Section 11.11 or under the indemnification provisions of this Agreement, (y) the receipt of an Erroneous Payment by a Payment Recipient shall not for the purpose of this Agreement be treated as a payment, prepayment, repayment, discharge or other satisfaction of any Obligations owed by the Borrower or any other Credit Party, except, in each case, to the extent such Erroneous Payment is, and solely with respect to the amount of such Erroneous Payment

that is, comprised of funds received by the Administrative Agent from the Borrower or any other Credit Party for the purpose of making a payment on the Obligations and (z) to the extent that an Erroneous Payment was in any way or at any time credited as payment or satisfaction of any of the Obligations, the Obligations or any part thereof that were so credited, and all rights of the Payment Recipient, as the case may be, shall be reinstated and continue in full force and effect as if such payment or satisfaction had never been received.

(f) Each party's obligations under this Section 11.11 shall survive the resignation or replacement of the Administrative Agent or any transfer of right or obligations by, or the replacement of, a Lender, the termination of the Commitments or the repayment, satisfaction or discharge of all Obligations (or any portion thereof) under any Loan Document.

(g) Nothing in this Section 11.11 will constitute a waiver or release of any claim of the Administrative Agent hereunder arising from any Payment Recipient's receipt of an Erroneous Payment.

ARTICLE XII

MISCELLANEOUS

SECTION 12.1 Notices.

(a) Notices Generally. Except in the case of notices and other communications expressly permitted to be given by telephone (and except as provided in paragraph (b) below), all notices and other communications provided for herein shall be in writing and shall be delivered by hand or overnight courier service, mailed by certified or registered mail or sent by facsimile as follows:

If to the Borrower:

Emergent BioSolutions Inc.
400300 Professional Drive
Gaithersburg, Maryland 20879
Attention of: General Counsel
Telephone No.: [**]
Facsimile No.: [**]
E-mail: [**]

With copies to:

Emergent BioSolutions Inc. **400300**
Professional Drive Gaithersburg,
Maryland 20879 Attention of: Chief
Financial Officer Telephone No.:
[**]
Facsimile No.: [**]
E-mail: [**]

and

Weil, Gotshal & Manges LLP
200 Crescent Court, Suite 300
Dallas, Texas 75201
Attention of: Vynessa Nemunaitis

Telephone No.: [**]
Facsimile No.: [**]
Email: [**]

If to Wells Fargo as Administrative Agent, Swingline Lender or Issuing Lender
(for payments and requests for Extensions of Credit):

Wells Fargo Bank, National Association
MAC D1109-019
1525 West W.T. Harris Blvd.
Charlotte, North Carolina 28262
Attention of: Syndication Agency Services
Telephone No.: [**]
Facsimile No.: [**]

[**]

With copies to:

Wells Fargo Bank, National Association
600 Wells Fargo
600 S. 4th Street, 12th_{7th} Floor
Minneapolis, MN 55415-1526
MAC: N9300-129
Attention of: [Troy Jefferson](#)[Dennis Boe](#)
Telephone No.: [**] _____
Facsimile No.: [**]
E-mail: [troy.jefferson](#)[**]

If to any Lender:

To the address of such Lender set forth on the Register with respect to
deliveries of notices and other documentation that may contain material
non-public information.

Notices sent by hand or overnight courier service, or mailed by certified or registered mail, shall be deemed to have been given when received; notices sent by facsimile shall be deemed to have been given when sent (except that, if not given during normal business hours for the recipient, shall be deemed to have been given at the opening of business on the next business day for the recipient). Notices delivered through electronic communications to the extent provided in paragraph (b) below, shall be effective as provided in said paragraph (b).

(b) Electronic Communications. Notices and other communications to the Lenders and the Issuing Lenders hereunder may be delivered or furnished by electronic communication (including e-mail and Internet or intranet websites) pursuant to procedures approved by the Administrative Agent, provided that the foregoing shall not apply to notices to any Lender or any Issuing Lender pursuant to Article II or III if such Lender or such Issuing Lender, as applicable, has notified the Administrative Agent that is incapable of receiving notices under such Article by electronic communication. The Administrative Agent or the Borrower may, in its discretion, agree to accept notices and other communications to it hereunder by electronic communications pursuant to procedures approved by it, provided that approval of such procedures may be limited to particular notices or communications. Unless the Administrative Agent otherwise prescribes, (i) notices and other communications sent to an e-mail address shall be deemed received upon the sender's receipt of an acknowledgement from the intended recipient (such as

by the "return receipt requested" function, as available, return e-mail or other written acknowledgement), and (ii) notices or communications posted to an Internet or intranet website shall be deemed received upon the deemed receipt by the intended recipient at its e-mail address as described in the foregoing clause (i) of notification that such notice or communication is available and identifying the website address therefor; provided that, for both clauses (i) and (ii) above, if such notice, email or other communication is not sent during the normal business hours of the recipient, such notice, email or other communication shall be deemed to have been sent at the opening of business on the next business day for the recipient.

(c) Administrative Agent's Office. The Administrative Agent hereby designates its office located at the address set forth above, or any subsequent office which shall have been specified for such purpose by written notice to the Borrower and Lenders, as the Administrative Agent's Office referred to herein, to which payments due are to be made and at which Loans will be disbursed and Letters of Credit requested.

(d) Change of Address, Etc. Each of the Borrower, the Administrative Agent, any Issuing Lender or the Swingline Lender may change its address or other contact information for notices and other communications hereunder by notice to the other parties hereto. Any Lender may change its address or facsimile number for notices and other communications hereunder by notice to the Borrower, the Administrative Agent, each Issuing Lender and the Swingline Lender.

(e) Platform.

(i) Each Credit Party, each Lender and each Issuing Lender agrees that the Administrative Agent may, but shall not be obligated to, make the Borrower Materials available to the Issuing Lenders and the other Lenders by posting the Borrower Materials on the Platform.

(ii) The Platform is provided "as is" and "as available." The Agent Parties (as defined below) do not warrant the accuracy or completeness of the Borrower Materials or the adequacy of the Platform, and expressly disclaim liability for errors or omissions in the Borrower Materials. No warranty of any kind, express, implied or statutory, including any warranty of merchantability, fitness for a particular purpose, non-infringement of third-party rights or freedom from viruses or other code defects, is made by any Agent Party in connection with the Borrower Materials or the Platform. Although the Platform is secured pursuant to generally-applicable security procedures and policies implemented or modified by the Administrative Agent and its Related Parties, each of the Lenders, the Issuing Lenders and the Borrower acknowledges and agrees that distribution of information through an electronic means is not necessarily secure in all respects, the Administrative Agent, the Arranger and their respective Related Parties (collectively, the "Agent Parties") are not responsible for approving or vetting the representatives, designees or contacts of any Lender or Issuing Lender that are provided access to the Platform and that there may be confidentiality and other risks associated with such form of distribution. Each of the Borrower, each Lender and each Issuing Lender party hereto understands and accepts such risks. In no event shall the Agent Parties have any liability to any Credit Party, any Lender or any other Person or entity for losses, claims, damages, liabilities or expenses of any kind (whether in tort, contract or otherwise) arising out of any Credit Party's or the Administrative Agent's transmission of communications through the Internet (including the Platform), except to the extent that such losses, claims, damages, liabilities or expenses are determined by a court of competent jurisdiction by final and non-appealable judgment to have resulted from the gross negligence or willful misconduct of such Agent Party; provided that in no event shall any Agent Party have any liability to any Credit Party, any Lender, any Issuing Lender or any other Person for indirect, special, incidental,

consequential or punitive damages, losses or expenses (as opposed to actual damages, losses or expenses).

(f) Private Side Designation. Each Public Lender agrees to cause at least one individual at or on behalf of such Public Lender to at all times have selected the "Private Side Information" or similar designation on the content declaration screen of the Platform in order to enable such Public Lender or its delegate, in accordance with such Public Lender's compliance procedures and Applicable Law, including United States Federal and state securities Applicable Laws, to make reference to Borrower Materials that are not made available through the "Public Side Information" portion of the Platform and that may contain material non-public information with respect to the Borrower or its securities for purposes of United States Federal or state securities Applicable Laws.

SECTION 12.2 Amendments, Waivers and Consents. Except as set forth below or as specifically provided in any Loan Document (including Section 5.8(c)), any term, covenant, agreement or condition of this Agreement or any of the other Loan Documents may be amended or waived by the Lenders, and any consent given by the Lenders, if, but only if, such amendment, waiver or consent is in writing and approved by the Required Lenders (or by the Administrative Agent with the consent of the Required Lenders) and delivered to the Administrative Agent and, in the case of an amendment, signed by the Borrower; provided, that no amendment, waiver or consent shall:

(a) increase or extend the Commitment of any Lender (or reinstate any Commitment terminated pursuant to Section 10.2) or increase the amount of Loans of any Lender, in any case, without the written consent of such Lender;

(b) waive, extend or postpone any date fixed by this Agreement or any other Loan Document for any payment of principal, interest, fees or other amounts due to the Lenders (or any of them) hereunder or under any other Loan Document without the written consent of each Lender directly and adversely affected thereby;

(c) reduce the principal of, or the rate of interest specified herein on, any Loan or Reimbursement Obligation, or (subject to clause (iv) of the proviso set forth in the paragraph below) any fees or other amounts payable hereunder or under any other Loan Document without the written consent of each Lender directly and adversely affected thereby; provided that only the consent of the Required Lenders shall be necessary (i) to waive any obligation of the Borrower to pay interest at the rate set forth in Section 5.1(b) during the continuance of an Event of Default or (ii) to amend any financial covenant hereunder (or any defined term used therein) even if the effect of such amendment would be to reduce the rate of interest on any Loan or L/C Obligation or to reduce any fee payable hereunder;

(d) change Section 5.6 or Section 10.4 in a manner that would alter the pro rata sharing of payments or order of application required thereby without the written consent of each Lender directly and adversely affected thereby;

(e) except as otherwise permitted by this Section 12.2 change any provision of this Section or reduce the percentages specified in the definitions of "Required Lenders", "Required Revolving Credit Lenders", "Super Majority Required Lenders" or any other provision hereof specifying the number or percentage of Lenders required to amend, waive or otherwise modify any rights hereunder or make any determination or grant any consent hereunder, without the written consent of each Lender directly and adversely affected thereby;

(f) consent to the assignment or transfer by any Credit Party of such Credit Party's rights and obligations under any Loan Document to which it is a party (except as permitted pursuant to Section 9.4), in each case, without the written consent of each Lender;

(g) release (i) all of the Guarantors or (ii) Guarantors comprising substantially all of the credit support for the Secured Obligations, in any case, from any Guaranty Agreement, in each case without the written consent of each Lender;

(h) release or subordinate all or substantially all of the Collateral or release or subordinate any Collateral Document (or any Lien created thereby) which would have the effect of releasing all or substantially all of the Collateral without the written consent of each Lender (other than, in the case of subordination of the Collateral or the Collateral Documents (or any Lien created thereby), in connection with any debtor-in-possession or equivalent financing in a bankruptcy or other insolvency proceeding or the use of Collateral in an insolvency proceeding) without the consent of each Lender;

(i) amend the definition of "Alternative Currency", the definition of "Alternative L/C Currency" or Section 1.13 without the written consent of each Revolving Credit Lender and each Issuing Lender;

(j) (i) waive any condition precedent to any Extension of Credit under the Revolving Credit Facility set forth in Section 6.2, (ii) amend or otherwise modify the definition of "Reserve" herein, or (iii) amend or otherwise modify Section 6.2, if the effect of such amendment or modification is to require the Revolving Credit Lenders to make Revolving Credit Loans, the Swingline Lender to make any Swingline Loans or any Issuing Lender to issue any Letter of Credit (in each case, pursuant to a substantially concurrent request by the Borrower) when the Revolving Credit Lenders, Swingline Lender or Issuing Lender would not otherwise be required to do so, in each case, without the written consent of Required Revolving Credit Lenders; provided that only the consent of the Required Revolving Credit Lenders shall be necessary to reduce the amount of the Reserve; or

(k) subordinate in right of payment or amend the priority of payment in an adverse manner any of the Obligations without the written consent of each Lender (other than in connection with any debtor-in-possession or equivalent financing in a bankruptcy or other insolvency proceeding); or

(l) waive, extend or postpone any date for any mandatory principal prepayments under Section 4.4(b) without the written consent of the Super Majority Required Lenders;

provided further, that (i) no amendment, waiver or consent shall, unless in writing and signed by each affected Issuing Lender in addition to the Lenders required above, affect the rights or duties of such Issuing Lender under this Agreement (including Section 11.9(c)) or any Letter of Credit Documents relating to any Letter of Credit issued or to be issued by it; (ii) no amendment, waiver or consent shall, unless in writing and signed by the Swingline Lender in addition to the Lenders required above, affect the rights or duties of the Swingline Lender under this Agreement; (iii) no amendment, waiver or consent shall, unless in writing and signed by the Administrative Agent in addition to the Lenders required above, affect the rights or duties of the Administrative Agent under this Agreement or any other Loan Document or modify Section 12.1(e), Section 12.20 or Article XI hereof; (iv) the Engagement Letter may be amended, or rights or privileges thereunder waived, in a writing executed only by the parties thereto; (v) each Fee Letter may be amended, or rights or privileges thereunder waived, in a writing executed only by the parties thereto; (vi) the Administrative Agent Fee Letter may be amended, or rights or privileges thereunder waived, in a writing executed only by the parties thereto; (vii) each Letter of Credit Document may be amended, or rights or privileges thereunder waived, in a writing executed only by the parties thereto; provided that a copy of such amended Letter of Credit Document shall be promptly delivered to

the Administrative Agent upon such amendment or waiver, (viii) the Administrative Agent and the Borrower shall be permitted to amend any provision of the Loan Documents (and such amendment shall become effective without any further action or consent of any other party to any Loan Document) if the Administrative Agent and the Borrower shall have jointly identified an obvious error or any error, ambiguity, defect or inconsistency or omission of a technical or immaterial nature in any such provision and (ix) the Administrative Agent (and, if applicable, the Borrower) may, without the consent of any Lender, enter into amendments or modifications to this Agreement or any of the other Loan Documents or to enter into additional Loan Documents as the Administrative Agent reasonably deems appropriate in order to implement any Benchmark Replacement or any Conforming Changes or otherwise effectuate the terms of Section 5.8(c) in accordance with the terms of Section 5.8(c). Notwithstanding anything to the contrary herein, no Defaulting Lender shall have any right to approve or disapprove any amendment, waiver or consent hereunder, except that (A) the Commitment of such Lender may not be increased or extended without the consent of such Lender, and (B) any amendment, waiver, or consent hereunder which requires the consent of all Lenders or each affected Lender that by its terms disproportionately and adversely affects any such Defaulting Lender relative to other affected Lenders shall require the consent of such Defaulting Lender.

Notwithstanding anything in this Agreement to the contrary, each Lender hereby irrevocably authorizes the Administrative Agent on its behalf, and without further consent of any Lender (but with the consent of the Borrower and the Administrative Agent), to amend and restate this Agreement and the other Loan Documents if, upon giving effect to such amendment and restatement, such Lender shall no longer be a party to this Agreement (as so amended and restated), the Commitments of such Lender shall have terminated, such Lender shall have no other commitment or other obligation hereunder and shall have been paid in full all principal, interest and other amounts owing to it or accrued for its account under this Agreement and the other Loan Documents.

SECTION 12.3 Expenses; Indemnity.

(a) Costs and Expenses. The Borrower and each other Credit Party, jointly and severally, shall pay (i) all reasonable out of pocket expenses incurred by the Administrative Agent and its Affiliates (including the reasonable fees, charges and disbursements of one primary counsel for the Administrative Agent and, if reasonably necessary, a single local counsel for the Administrative Agent in each relevant jurisdiction), in connection with the syndication of the Credit Facility, the preparation, negotiation, execution, delivery and administration of this Agreement and the other Loan Documents or any amendments, modifications or waivers of the provisions hereof or thereof (whether or not the transactions contemplated hereby or thereby shall be consummated), subject to the terms and limitations in the Engagement Letter, in the applicable Fee Letter and in the Administrative Agent Fee Letter, in each case, with respect to amounts incurred on or prior to the Closing Date, (ii) all reasonable out of pocket expenses incurred by any Issuing Lender in connection with the issuance, amendment, renewal or extension of any Letter of Credit or any demand for payment thereunder and (iii) all out of pocket expenses incurred by the Administrative Agent, any Lender or any Issuing Lender (including the fees, charges and disbursements of one primary counsel for the Administrative Agent, any Lender or any Issuing Lender and, if reasonably necessary, a single local counsel in each relevant jurisdiction (unless there is an actual or perceived conflict of interest in which case each such Person may retain its own counsel)), in connection with the enforcement or protection of its rights (A) in connection with this Agreement and the other Loan Documents, including its rights under this Section, or (B) in connection with the Loans made or Letters of Credit issued hereunder, including all such out of pocket expenses incurred during any workout, restructuring or negotiations in respect of such Loans or Letters of Credit.

(b) Indemnification by the Borrower. The Borrower shall indemnify the Administrative Agent (and any sub-agent thereof), each Lender and each Issuing Lender, and each Related Party of any

of the foregoing Persons (each such Person being called an “Indemnitee”) against, and hold each Indemnitee harmless from, and shall pay or reimburse any such Indemnitee for, any and all losses, claims (including, without limitation, any Environmental Claims), penalties, damages, liabilities and related expenses (including the fees, charges and disbursements of one primary counsel for all Indemnitees and, if reasonably necessary, a single local counsel in each relevant jurisdiction (unless there is an actual or perceived conflict of interest in which case each such Indemnitee may retain its own counsel)), incurred by any Indemnitee or asserted against any Indemnitee by any Person (including the Borrower or any other Credit Party), other than such Indemnitee and its Related Parties, arising out of, in connection with, or as a result of (i) the execution or delivery of this Agreement, any other Loan Document or any agreement or instrument contemplated hereby or thereby, the performance by the parties hereto of their respective obligations hereunder or thereunder or the consummation of the transactions contemplated hereby or thereby (including, without limitation, the Transactions), (ii) any Loan or Letter of Credit or the use or proposed use of the proceeds therefrom (including any refusal by any Issuing Lender to honor a demand for payment under a Letter of Credit if the documents presented in connection with such demand do not strictly comply with the terms of such Letter of Credit), (iii) any actual or alleged presence or release of Hazardous Materials on or from any property owned or operated by any Credit Party or any Subsidiary thereof, or any Environmental Claim related in any way to any Credit Party or any Subsidiary, (iv) any actual or prospective claim, litigation, investigation or proceeding relating to any of the foregoing, whether based on contract, tort or any other theory, whether brought by a third party or by any Credit Party or any Subsidiary thereof, and regardless of whether any Indemnitee is a party thereto, or (v) any claim (including, without limitation, any Environmental Claims), investigation, litigation or other proceeding (whether or not the Administrative Agent or any Lender is a party thereto) and the prosecution and defense thereof, arising out of or in any way connected with the Loans, this Agreement, any other Loan Document, or any documents contemplated by or referred to herein or therein or the transactions contemplated hereby or thereby, including without limitation, reasonable out-of-pocket attorneys and consultant’s fees, provided that such indemnity shall not, as to any Indemnitee, be available to the extent that such losses, claims, damages, liabilities or related expenses (A) are determined by a court of competent jurisdiction by final and nonappealable judgment to have resulted from the gross negligence, bad faith or willful misconduct of such Indemnitee, (B) result from a claim brought by any Credit Party or any Subsidiary thereof against an Indemnitee for material breach of such Indemnitee’s obligations hereunder or under any other Loan Document, if such Credit Party or such Subsidiary has obtained a final and nonappealable judgment in its favor on such claim as determined by a court of competent jurisdiction or (C) arise out of a dispute that is solely between Lenders in their capacities as Lenders (and not in any Lender’s capacity as Arranger, Administrative Agent, Swingline Lender or Issuing Lender) and not arising out of any act or omission of any Credit Party or any Subsidiary or Affiliate thereof. This Section 12.3(b) shall not apply with respect to Taxes other than any Taxes that represent losses, claims, damages, etc. arising from any non-Tax claim.

(c) Reimbursement by Lenders. To the extent that the Borrower for any reason fails to indefeasibly pay any amount required under clause (a) or (b) of this Section to be paid by it to the Administrative Agent (or any sub-agent thereof), any Issuing Lender, the Swingline Lender or any Related Party of any of the foregoing, each Lender severally agrees to pay to the Administrative Agent (or any such sub-agent), such Issuing Lender, the Swingline Lender or such Related Party, as the case may be, such Lender’s pro rata share (determined as of the time that the applicable unreimbursed expense or indemnity payment is sought based on each Lender’s share of the Total Credit Exposure at such time, or if the Total Credit Exposure has been reduced to zero, then based on such Lender’s share of the Total Credit Exposure immediately prior to such reduction) of such unpaid amount (including any such unpaid amount in respect of a claim asserted by such Lender); provided that with respect to such unpaid amounts owed to any Issuing Lender or the Swingline Lender solely in its capacity as such, only the Revolving Credit Lenders shall be required to pay such unpaid amounts, such payment to be made severally among them based on such Revolving Credit Lenders’ Revolving Credit Commitment Percentage (determined as

of the time that the applicable unreimbursed expense or indemnity payment is sought or, if the Revolving Credit Commitment has been reduced to zero as of such time, determined immediately prior to such reduction); provided, further, that the unreimbursed expense or indemnified loss, claim, damage, liability or related expense, as the case may be, was incurred by or asserted against the Administrative Agent (or any such sub-agent), such Issuing Lender or the Swingline Lender in its capacity as such, or against any Related Party of any of the foregoing acting for the Administrative Agent (or any such sub-agent), such Issuing Lender or the Swingline Lender in connection with such capacity. The obligations of the Lenders under this clause (c) are subject to the provisions of Section 5.7.

(d) Waiver of Consequential Damages, Etc. To the fullest extent permitted by Applicable Law, the Borrower and each other Credit Party shall not assert, and hereby waives, any claim against any Indemnitee, on any theory of liability, for special, indirect, consequential or punitive damages (as opposed to direct or actual damages) arising out of, in connection with, or as a result of, this Agreement, any other Loan Document or any agreement or instrument contemplated hereby, the transactions contemplated hereby or thereby, any Loan or Letter of Credit or the use of the proceeds thereof. No Indemnitee referred to in clause (b) above shall be liable for any damages arising from the use by unintended recipients of any information or other materials distributed by it through telecommunications, electronic or other information transmission systems in connection with this Agreement or the other Loan Documents or the transactions contemplated hereby or thereby.

(e) Payments. All amounts due under this Section shall be payable promptly after demand therefor.

(f) Survival. Each party's obligations under this Section shall survive the termination of the Loan Documents and payment of the obligations hereunder.

SECTION 12.4 Right of Setoff. If an Event of Default shall have occurred and be continuing, each Lender, each Issuing Lender, the Swingline Lender and each of their respective Affiliates (with the consent of or at the direction of the Required Lenders) is hereby authorized at any time and from time to time, to the fullest extent permitted by Applicable Law, to setoff and apply any and all deposits (general or special, time or demand, provisional or final, in whatever currency) at any time held and other obligations (in whatever currency) at any time owing by such Lender, such Issuing Lender, the Swingline Lender or any such Affiliate to or for the credit or the account of the Borrower or any other Credit Party against any and all of the obligations of the Borrower or such Credit Party now or hereafter existing under this Agreement or any other Loan Document to such Lender, such Issuing Lender or the Swingline Lender or any of their respective Affiliates, irrespective of whether or not such Lender, such Issuing Lender, the Swingline Lender or any such Affiliate shall have made any demand under this Agreement or any other Loan Document and although such obligations of the Borrower or such Credit Party may be contingent or unmatured or are owed to a branch or office of such Lender, such Issuing Lender, the Swingline Lender or such Affiliate different from the branch, office or Affiliate holding such deposit or obligated on such indebtedness; provided that in the event that any Defaulting Lender or any Affiliate thereof shall exercise any such right of setoff, (x) all amounts so setoff shall be paid over immediately to the Administrative Agent for further application in accordance with the provisions of Section 10.4 and, pending such payment, shall be segregated by such Defaulting Lender or Affiliate of a Defaulting Lender from its other funds and deemed held in trust for the benefit of the Administrative Agent, the Issuing Lenders, the Swingline Lender and the Lenders, and (y) the Defaulting Lender or its Affiliate shall provide promptly to the Administrative Agent a statement describing in reasonable detail the Secured Obligations owing to such Defaulting Lender or any of its Affiliates as to which such right of setoff was exercised. The rights of each Lender, each Issuing Lender, the Swingline Lender and their respective Affiliates under this Section are in addition to other rights and remedies (including other rights of setoff) that such Lender, such Issuing Lender, the Swingline Lender or their

respective Affiliates may have. Each Lender, such Issuing Lender and the Swingline Lender agree to notify the Borrower and the Administrative Agent promptly after any such setoff and application; provided that the failure to give such notice shall not affect the validity of such setoff and application. Notwithstanding the provisions of this Section, if at any time any Lender, any Issuing Lender or any of their respective Affiliates maintains one or more deposit accounts for the Borrower or any other Credit Party into which Medicare or Medicaid receivables are deposited, such Person shall waive the right of setoff set forth herein.

SECTION 12.5 Governing Law; Jurisdiction, Etc.

(a) Governing Law. This Agreement and the other Loan Documents and any claim, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement or any other Loan Document (except, as to any other Loan Document, as expressly set forth therein) and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the law of the State of New York.

(b) Submission to Jurisdiction. The Borrower and each other Credit Party irrevocably and unconditionally agrees that it will not commence any action, litigation or proceeding of any kind or description, whether in law or equity, whether in contract or in tort or otherwise, against the Administrative Agent, any Lender, any Issuing Lender, the Swingline Lender, or any Related Party of the foregoing in any way relating to this Agreement or any other Loan Document or the transactions relating hereto or thereto, in any forum other than the courts of the State of New York sitting in New York County, and of the United States District Court of the Southern District of New York sitting in New York County, and any appellate court from any thereof, and each of the parties hereto irrevocably and unconditionally submits to the jurisdiction of such courts and agrees that all claims in respect of any such action, litigation or proceeding may be heard and determined in such New York State court or, to the fullest extent permitted by Applicable Law, in such federal court. Each of the parties hereto agrees that a final judgment in any such action, litigation or proceeding shall be conclusive and may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by law. Nothing in this Agreement or in any other Loan Document shall affect any right that the Administrative Agent, any Lender, any Issuing Lender or the Swingline Lender may otherwise have to bring any action or proceeding relating to this Agreement or any other Loan Document against the Borrower or any other Credit Party or its properties in the courts of any jurisdiction.

(c) Waiver of Venue. The Borrower and each other Credit Party irrevocably and unconditionally waives, to the fullest extent permitted by Applicable Law, any objection that it may now or hereafter have to the laying of venue of any action or proceeding arising out of or relating to this Agreement or any other Loan Document in any court referred to in paragraph (b) of this Section. Each of the parties hereto hereby irrevocably waives, to the fullest extent permitted by Applicable Law, the defense of an inconvenient forum to the maintenance of such action or proceeding in any such court.

(d) Service of Process. Each party hereto irrevocably consents to service of process in the manner provided for notices in Section 12.1. Nothing in this Agreement will affect the right of any party hereto to serve process in any other manner permitted by Applicable Law.

SECTION 12.6 Waiver of Jury Trial. EACH PARTY HERETO HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN ANY LEGAL PROCEEDING DIRECTLY OR INDIRECTLY ARISING OUT OF OR RELATING TO THIS AGREEMENT OR ANY OTHER LOAN DOCUMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY OR THEREBY (WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY). EACH PARTY HERETO (A) CERTIFIES THAT

NO REPRESENTATIVE, AGENT OR ATTORNEY OF ANY OTHER PERSON HAS REPRESENTED, EXPRESSLY OR OTHERWISE, THAT SUCH OTHER PERSON WOULD NOT, IN THE EVENT OF LITIGATION, SEEK TO ENFORCE THE FOREGOING WAIVER AND (B) ACKNOWLEDGES THAT IT AND THE OTHER PARTIES HERETO HAVE BEEN INDUCED TO ENTER INTO THIS AGREEMENT AND THE OTHER LOAN DOCUMENTS BY, AMONG OTHER THINGS, THE MUTUAL WAIVERS AND CERTIFICATIONS IN THIS SECTION.

SECTION 12.7 Reversal of Payments. To the extent any Credit Party makes a payment or payments to the Administrative Agent for the ratable benefit of any of the Secured Parties or to any Secured Party directly or the Administrative Agent or any Secured Party receives any payment or proceeds of the Collateral or any Secured Party exercises its right of setoff, which payments or proceeds (including any proceeds of such setoff) or any part thereof are subsequently invalidated, declared to be fraudulent or preferential, set aside and/or required to be repaid to a trustee, receiver or any other party under any Debtor Relief Law, other Applicable Law or equitable cause, then, to the extent of such payment or proceeds repaid, the Secured Obligations or part thereof intended to be satisfied shall be revived and continued in full force and effect as if such payment or proceeds had not been received by the Administrative Agent, and each Lender and each Issuing Lender severally agrees to pay to the Administrative Agent upon demand its applicable ratable share (without duplication) of any amount so recovered from or repaid by the Administrative Agent plus interest thereon at a per annum rate equal to the Federal Funds Rate from the date of such demand to the date such payment is made to the Administrative Agent.

SECTION 12.8 Injunctive Relief. The Borrower recognizes that, in the event the Borrower fails to perform, observe or discharge any of its obligations or liabilities under this Agreement, any remedy of law may prove to be inadequate relief to the Lenders. Therefore, the Borrower agrees that the Lenders, at the Lenders' option, shall be entitled to temporary and permanent injunctive relief in any such case without the necessity of proving actual damages.

SECTION 12.9 Successors and Assigns; Participations.

(a) Successors and Assigns Generally. The provisions of this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns permitted hereby, except that neither the Borrower nor any other Credit Party may assign or otherwise transfer any of its rights or obligations hereunder without the prior written consent of the Administrative Agent and each Lender and no Lender may assign or otherwise transfer any of its rights or obligations hereunder except (i) to an assignee in accordance with the provisions of paragraph (b) of this Section, (ii) by way of participation in accordance with the provisions of paragraph (d) of this Section or (iii) by way of pledge or assignment of a security interest subject to the restrictions of paragraph (e) of this Section (and any other attempted assignment or transfer by any party hereto shall be null and void). Nothing in this Agreement, expressed or implied, shall be construed to confer upon any Person (other than the parties hereto, their respective successors and assigns permitted hereby, Participants to the extent provided in paragraph (d) of this Section and, to the extent expressly contemplated hereby, the Related Parties of each of the Administrative Agent and the Lenders) any legal or equitable right, remedy or claim under or by reason of this Agreement.

(b) Assignments by Lenders. Any Lender may at any time assign to one or more assignees all or a portion of its rights and obligations under this Agreement (including all or a portion of its Revolving Credit Commitment and the Loans at the time owing to it); provided that, in each case with respect to any Credit Facility, any such assignment shall be subject to the following conditions:

(i) Minimum Amounts. The aggregate amount of the Commitment (which for this purpose includes Loans outstanding thereunder) or, if the applicable Commitment is not then in effect, the principal outstanding balance of the Loans of the assigning Lender subject to each such assignment (determined as of the date the Assignment and Assumption with respect to such assignment is delivered to the Administrative Agent or, if "Trade Date" is specified in the Assignment and Assumption, as of the Trade Date) shall not be less than \$5,000,000 or, if less, then the remaining amount of the assigning Lender's Revolving Credit Commitment or Term Loans, unless each of the Administrative Agent and, so long as no Event of Default has occurred and is continuing, the Borrower otherwise consents (each such consent not to be unreasonably withheld or delayed); provided that the Borrower shall be deemed to have given its consent ten (10) Business Days after the date written notice thereof has been delivered by the assigning Lender (through the Administrative Agent) unless such consent is expressly refused by the Borrower prior to such tenth (10th) Business Day; provided further that in the case of an assignment to a Lender, an Affiliate of a Lender or an Approved Fund, no minimum amount need be assigned;

(ii) Proportionate Amounts. Each partial assignment shall be made as an assignment of a proportionate part of all the assigning Lender's rights and obligations under this Agreement with respect to the Loan or the Commitment assigned;

(iii) Required Consents. No consent shall be required for any assignment except to the extent required by paragraph (b)(i) of this Section and, in addition:

(A) the consent of the Borrower (such consent not to be unreasonably withheld or delayed) shall be required unless (x) an Event of Default under Section 10.1(a) or (f) has occurred and is continuing at the time of such assignment or (y) such assignment is to a Lender or an Affiliate of a Lender or an Approved Fund; provided, that the Borrower shall be deemed to have consented to any such assignment unless it shall object thereto by written notice to the Administrative Agent within ten (10) Business Days after having received notice thereof; and provided, further, that the Borrower's consent shall not be required during the primary syndication of the Credit Facility.

(B) the consent of the Administrative Agent (such consent not to be unreasonably withheld or delayed) shall be required for assignments in respect of (i) the Revolving Credit Facility or any unfunded Term Loan Commitments if such assignment is to a Person that is not a Lender with a Revolving Credit Commitment or a Term Loan Commitment, as applicable, an Affiliate of such Lender or an Approved Fund with respect to such Lender or (ii) the Term Loans to a Person that is not a Lender, an Affiliate of a Lender or an Approved Fund; and

(C) the consents of the Issuing Lenders and the Swingline Lender (such consents not to be unreasonably withheld or delayed) shall be required for any assignment in respect of the Revolving Credit Facility.

(iv) Assignment and Assumption. The parties to each assignment shall execute and deliver to the Administrative Agent an Assignment and Assumption, together with a processing and recordation fee of \$3,500 for each assignment; provided that (A) only one such fee will be payable in connection with simultaneous assignments to two or more related Approved Funds by a Lender and (B) the Administrative Agent may, in its sole discretion, elect to waive such

processing and recordation fee in the case of any assignment. The assignee, if it is not a Lender, shall deliver to the Administrative Agent an Administrative Questionnaire.

(v) No Assignment to Certain Persons. No such assignment shall be made to (A) a natural Person (or a holding company, investment vehicle or trust for, or owned and operated for the primary benefit of, a natural Person), (B) the Borrower or any of the Borrower's respective Subsidiaries or Affiliates or (C) any Defaulting Lender or any of its Subsidiaries, or any Person who, upon becoming a Lender hereunder, would constitute any of the foregoing Persons described in this clause (C).

(vi) Certain Additional Payments. In connection with any assignment of rights and obligations of any Defaulting Lender hereunder, no such assignment shall be effective unless and until, in addition to the other conditions thereto set forth herein, the parties to the assignment shall make such additional payments to the Administrative Agent in an aggregate amount sufficient, upon distribution thereof as appropriate (which may be outright payment, purchases by the assignee of participations or subparticipations, or other compensating actions, including funding, with the consent of the Borrower and the Administrative Agent, the applicable *pro rata* share of Loans previously requested, but not funded by, the Defaulting Lender, to each of which the applicable assignee and assignor hereby irrevocably consent), to (A) pay and satisfy in full all payment liabilities then owed by such Defaulting Lender to the Administrative Agent, the Issuing Lenders, the Swingline Lender and each other Lender hereunder (and interest accrued thereon), and (B) acquire (and fund as appropriate) its full *pro rata* share of all Loans and participations in Letters of Credit and Swingline Loans in accordance with its Revolving Credit Commitment Percentage. Notwithstanding the foregoing, in the event that any assignment of rights and obligations of any Defaulting Lender hereunder shall become effective under Applicable Law without compliance with the provisions of this paragraph, then the assignee of such interest shall be deemed to be a Defaulting Lender for all purposes of this Agreement until such compliance occurs.

Subject to acceptance and recording thereof by the Administrative Agent pursuant to paragraph (c) of this Section, from and after the effective date specified in each Assignment and Assumption, the assignee thereunder shall be a party to this Agreement and, to the extent of the interest assigned by such Assignment and Assumption, have the rights and obligations of a Lender under this Agreement, and the assigning Lender thereunder shall, to the extent of the interest assigned by such Assignment and Assumption, be released from its obligations under this Agreement (and, in the case of an Assignment and Assumption covering all of the assigning Lender's rights and obligations under this Agreement, such Lender shall cease to be a party hereto) but shall continue to be entitled to the benefits of Sections 5.8, 5.9, 5.10, 5.11 and 12.3 with respect to facts and circumstances occurring prior to the effective date of such assignment; provided, that except to the extent otherwise expressly agreed by the affected parties, no assignment by a Defaulting Lender will constitute a waiver or release of any claim of any party hereunder arising from that Lender's having been a Defaulting Lender. Any assignment or transfer by a Lender of rights or obligations under this Agreement that does not comply with this paragraph shall be treated for purposes of this Agreement as a sale by such Lender of a participation in such rights and obligations in accordance with paragraph (d) of this Section (other than a purported assignment to a natural Person or the Borrower or any of the Borrower's respective Subsidiaries or Affiliates, which shall be null and void).

(c) Register. The Administrative Agent, acting solely for this purpose as a non-fiduciary agent of the Borrower, shall maintain at one of its offices in Charlotte, North Carolina, a copy of each Assignment and Assumption delivered to it and a register for the recordation of the names and addresses of the Lenders, and the Commitment of, and principal amounts of (and stated interest on) the Loans

owing to, each Lender pursuant to the terms hereof from time to time (the “Register”). The entries in the Register shall be conclusive, absent manifest error, and the Borrower, the Administrative Agent and the Lenders shall treat each Person whose name is recorded in the Register pursuant to the terms hereof as a Lender hereunder for all purposes of this Agreement. The Register shall be available for inspection by the Borrower and any Lender (but only to the extent of entries in the Register that are applicable to such Lender), at any reasonable time and from time to time upon reasonable prior notice.

(d) **Participations.** Any Lender may at any time, without the consent of, or notice to, the Borrower, the Administrative Agent, any Issuing Lender or the Swingline Lender, sell participations to any Person (other than a natural Person (or a holding company, investment vehicle or trust for, or owned and operated for the primary benefit of, a natural Person) or the Borrower or any of the Borrower’s respective Affiliates or Subsidiaries) (each, a “Participant”) in all or a portion of such Lender’s rights and/or obligations under this Agreement (including all or portion of its Commitment and/or the Loans owing to it); provided that (i) such Lender’s obligations under this Agreement shall remain unchanged, (ii) such Lender shall remain solely responsible to the other parties hereto for the performance of such obligations and (iii) the Borrower, the Administrative Agent, each Issuing Lender, the Swingline Lender and the other Lenders shall continue to deal solely and directly with such Lender in connection with such Lender’s rights and obligations under this Agreement. For the avoidance of doubt, each Lender shall be responsible for the indemnity under Section 12.3(c) with respect to any payments made by such Lender to its Participant(s).

Any agreement or instrument pursuant to which a Lender sells such a participation shall provide that such Lender shall retain the sole right to enforce this Agreement and to approve any amendment, modification or waiver of any provision of this Agreement; provided that such agreement or instrument may provide that such Lender will not, without the consent of the Participant, agree to any amendment, modification or waiver described in Section 12.2(b), (c), (d) or (e) that directly and adversely affects such Participant. The Borrower agrees that each Participant shall be entitled to the benefits of Sections 5.9, 5.10 and 5.11 (subject to the requirements and limitations therein, including the requirements under Section 5.11(g) (it being understood that the documentation required under Section 5.11(g) shall be delivered to the participating Lender)) to the same extent as if it were a Lender and had acquired its interest by assignment pursuant to paragraph (b) of this Section; provided that such Participant (A) agrees to be subject to the provisions of Section 5.12 as if it were an assignee under paragraph (b) of this Section; and (B) shall not be entitled to receive any greater payment under Sections 5.10 or 5.11, with respect to any participation, than its participating Lender would have been entitled to receive, except to the extent such entitlement to receive a greater payment results from a Change in Law that occurs after the Participant acquired the applicable participation. Each Lender that sells a participation agrees, at the Borrower’s request and expense, to use reasonable efforts to cooperate with the Borrower to effectuate the provisions of Section 5.12(b) with respect to any Participant. To the extent permitted by law, each Participant also shall be entitled to the benefits of Section 12.4 as though it were a Lender; provided that such Participant agrees to be subject to Section 5.6 and Section 12.4 as though it were a Lender.

Each Lender that sells a participation shall, acting solely for this purpose as a non-fiduciary agent of the Borrower, maintain a register on which it enters the name and address of each Participant and the principal amounts of (and stated interest on) each Participant’s interest in the Loans or other obligations under the Loan Documents (the “Participant Register”); provided that no Lender shall have any obligation to disclose all or any portion of the Participant Register (including the identity of any Participant or any information relating to a Participant’s interest in any commitments, loans, letters of credit or its other obligations under any Loan Document) to any Person except to the extent that such disclosure is necessary to establish that such commitment, loan, letter of credit or other obligation is in registered form under Section 5f.103-1(c) of the United States Treasury Regulations. The entries in the Participant Register shall be conclusive absent manifest error, and such Lender shall treat each Person

whose name is recorded in the Participant Register as the owner of such participation for all purposes of this Agreement notwithstanding any notice to the contrary. For the avoidance of doubt, the Administrative Agent (in its capacity as Administrative Agent) shall have no responsibility for maintaining a Participant Register.

(e) Certain Pledges. Any Lender may at any time pledge or assign a security interest in all or any portion of its rights under this Agreement to secure obligations of such Lender, including without limitation any pledge or assignment to secure obligations to a Federal Reserve Bank; provided that no such pledge or assignment shall release such Lender from any of its obligations hereunder or substitute any such pledgee or assignee for such Lender as a party hereto.

(f) Cashless Settlement. Notwithstanding anything to the contrary contained in this Agreement, any Lender may exchange, continue or rollover all or a portion of its Loans in connection with any refinancing, extension, loan modification or similar transaction permitted by the terms of this Agreement, pursuant to a cashless settlement mechanism approved by the Borrower, the Administrative Agent and such Lender.

SECTION 12.10 Treatment of Certain Information; Confidentiality. Each of the Administrative Agent, the Lenders and each Issuing Lender agrees to maintain the confidentiality of the Information (as defined below), except that Information may be disclosed (a) to its Affiliates and to its and its Related Parties (it being understood that the Persons to whom such disclosure is made will be informed of the confidential nature of such Information and instructed to keep such Information confidential), (b) to the extent required or requested by, or required to be disclosed to, any regulatory or similar authority purporting to have jurisdiction over such Person or its Related Parties (including any self-regulatory authority, such as the National Association of Insurance Commissioners) (in which case, the Administrative Agent, such Issuing Lender or such Lender, as applicable, shall use commercially reasonable efforts to, except with respect to any audit or examination conducted by bank accountants or any governmental bank regulatory authority exercising examination or regulatory authority, promptly notify the Borrower, in advance, to the extent practicable and otherwise permitted by Applicable Law), (c) as to the extent required by Applicable Laws or regulations or in any legal, judicial, administrative proceeding or other compulsory process, (d) to any other party hereto, (e) in connection with the exercise of any remedies under this Agreement, under any other Loan Document or under any Secured Hedge Agreement or Secured Cash Management Agreement, or any action or proceeding relating to this Agreement, any other Loan Document or any Secured Hedge Agreement or Secured Cash Management Agreement, or the enforcement of rights hereunder or thereunder, (f) subject to an agreement containing provisions substantially the same as those of this Section, to (i) any assignee of or Participant in, or any prospective assignee of or Participant in, any of its rights and obligations under this Agreement, and in each case, their respective financing sources or (ii) any actual or prospective party (or its Related Parties) to any swap, derivative or other transaction under which payments are to be made by reference to the Borrower and their respective obligations, this Agreement or payments hereunder; (g) on a confidential basis to (i) any rating agency in connection with rating the Borrower or its Subsidiaries or the Credit Facility or (ii) the CUSIP Service Bureau or any similar agency in connection with the issuance and monitoring of CUSIP numbers with respect to the Credit Facility; (h) with the consent of the Borrower, (i) deal terms and other information customarily reported to Thomson Reuters, other bank market data collectors and similar service providers to the lending industry and service providers to the Administrative Agent and the Lenders in connection with the administration of the Loan Documents, (j) to the extent such Information (i) becomes publicly available other than as a result of a breach of this Section or (ii) becomes available to the Administrative Agent, any Lender, any Issuing Lender or any of their respective Affiliates from a third party that is not, to such Person's knowledge, subject to confidentiality obligations to the Borrower, or (k) to the extent that such information is independently developed by such Person, or (l) for purposes of establishing a "due diligence" defense. In addition, the

Administrative Agent and the Lenders may disclose the existence of this Agreement and information about this Agreement to market data collectors, similar service providers to the lending industry and service providers to the Administrative Agent and the Lenders in connection with the administration of this Agreement, the other Loan Documents, and the Commitments. For purposes of this Section, “Information” means all information received from any Credit Party or any Subsidiary thereof relating to any Credit Party or any Subsidiary thereof or any of their respective businesses, other than any such information that is available to the Administrative Agent, any Lender or any Issuing Lender on a nonconfidential basis prior to disclosure by any Credit Party or any Subsidiary thereof; provided that, in the case of information received from a Credit Party or any Subsidiary thereof after the date hereof, such information is clearly identified at the time of delivery as confidential. Any Person required to maintain the confidentiality of Information as provided in this Section shall be considered to have complied with its obligation to do so if such Person has exercised the same degree of care to maintain the confidentiality of such Information as such Person would accord to its own confidential information.

SECTION 12.11 Performance of Duties. Each of the Credit Party’s obligations under this Agreement and each of the other Loan Documents shall be performed by such Credit Party at its sole cost and expense.

SECTION 12.12 All Powers Coupled with Interest. All powers of attorney and other authorizations granted to the Lenders, the Administrative Agent and any Persons designated by the Administrative Agent or any Lender pursuant to any provisions of this Agreement or any of the other Loan Documents shall be deemed coupled with an interest and shall be irrevocable so long as any of the Obligations remain unpaid or unsatisfied, any of the Commitments remain in effect or the Credit Facility has not been terminated.

SECTION 12.13 Survival.

(a) All representations and warranties set forth in Article VII and all representations and warranties contained in any certificate, or any of the Loan Documents (including, but not limited to, any such representation or warranty made in or in connection with any amendment thereto) shall constitute representations and warranties made under this Agreement. All representations and warranties made under this Agreement shall be made or deemed to be made at and as of the Closing Date (except those that are expressly made as of a specific date), shall survive the Closing Date and shall not be waived by the execution and delivery of this Agreement, any investigation made by or on behalf of the Lenders or any borrowing hereunder.

(b) Notwithstanding any termination of this Agreement, the indemnities to which the Administrative Agent and the Lenders are entitled under the provisions of this Article XII and any other provision of this Agreement and the other Loan Documents shall continue in full force and effect and shall protect the Administrative Agent and the Lenders against events arising after such termination as well as before.

SECTION 12.14 Titles and Captions. Titles and captions of Articles, Sections and subSections in, and the table of contents of, this Agreement are for convenience only, and neither limit nor amplify the provisions of this Agreement.

SECTION 12.15 Severability of Provisions. Any provision of this Agreement or any other Loan Document which is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective only to the extent of such prohibition or unenforceability without invalidating the remainder of such provision or the remaining provisions hereof or thereof or affecting the validity or enforceability of such provision in any other jurisdiction. In the event that any provision is held to be so prohibited or

unenforceable in any jurisdiction, the Administrative Agent, the Lenders and the Borrower shall negotiate in good faith to amend such provision to preserve the original intent thereof in such jurisdiction (subject to the approval of the Required Lenders).

SECTION 12.16 Counterparts; Integration; Effectiveness; Electronic Execution.

(a) **Counterparts; Integration; Effectiveness.** This Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. This Agreement and the other Loan Documents, and any separate letter agreements with respect to fees payable to the Administrative Agent, any Issuing Lender, the Swingline Lender and/or the Arranger, constitute the entire contract among the parties relating to the subject matter hereof and supersede any and all previous agreements and understandings, oral or written, relating to the subject matter hereof. Except as provided in Section 6.1, this Agreement shall become effective when it shall have been executed by the Administrative Agent and when the Administrative Agent shall have received counterparts hereof that, when taken together, bear the signatures of each of the other parties hereto. Delivery of an executed counterpart of a signature page of this Agreement by facsimile or in electronic (i.e., "pdf" or "tif") format shall be effective as delivery of a manually executed counterpart of this Agreement.

(b) **Electronic Execution.** The words "execute," "execution," "signed," "signature," "delivery" and words of like import in or related to this Agreement, any other Loan Document or any document, amendment, approval, consent, waiver, modification, information, notice, certificate, report, statement, disclosure, or authorization to be signed or delivered in connection with this Agreement or any other Loan Document or the transactions contemplated hereby shall be deemed to include Electronic Signatures or execution in the form of an Electronic Record, and contract formations on electronic platforms approved by the Administrative Agent, deliveries or the keeping of records in electronic form, each of which shall be of the same legal effect, validity or enforceability as a manually executed signature or the use of a paper-based recordkeeping system, as the case may be, to the extent and as provided for in any Applicable Law, including the Federal Electronic Signatures in Global and National Commerce Act, the New York State Electronic Signatures and Records Act, or any other similar state laws based on the Uniform Electronic Transactions Act. Each party hereto agrees that any Electronic Signature or execution in the form of an Electronic Record shall be valid and binding on itself and each of the other parties hereto to the same extent as a manual, original signature. For the avoidance of doubt, the authorization under this paragraph may include, without limitation, use or acceptance by the parties of a manually signed paper which has been converted into electronic form (such as scanned into PDF format), or an electronically signed paper converted into another format, for transmission, delivery and/or retention. Notwithstanding anything contained herein to the contrary, the Administrative Agent is under no obligation to accept an Electronic Signature in any form or in any format unless expressly agreed to by the Administrative Agent pursuant to procedures approved by it; provided that without limiting the foregoing, (i) to the extent the Administrative Agent has agreed to accept such Electronic Signature from any party hereto, the Administrative Agent and the other parties hereto shall be entitled to rely on any such Electronic Signature purportedly given by or on behalf of the executing party without further verification and (ii) upon the request of the Administrative Agent or any Lender, any Electronic Signature shall be promptly followed by an original manually executed counterpart thereof. Without limiting the generality of the foregoing, each party hereto hereby (A) agrees that, for all purposes, including without limitation, in connection with any workout, restructuring, enforcement of remedies, bankruptcy proceedings or litigation among the Administrative Agent, the Lenders and any of the Credit Parties, electronic images of this Agreement or any other Loan Document (in each case, including with respect to any signature pages thereto) shall have the same legal effect, validity and enforceability as any paper original, and (B) waives any argument, defense or right to contest the validity or enforceability of

the Loan Documents based solely on the lack of paper original copies of any Loan Documents, including with respect to any signature pages thereto.

SECTION 12.17 Term of Agreement. This Agreement shall remain in effect from the Closing Date through and including the date upon which all Obligations (other than contingent indemnification obligations not then due) arising hereunder or under any other Loan Document shall have been indefeasibly and irrevocably paid and satisfied in full, all Letters of Credit have been terminated or expired (or been Cash Collateralized or otherwise satisfied in a manner acceptable to the applicable Issuing Lender) and the Revolving Credit Commitment has been terminated. No termination of this Agreement shall affect the rights and obligations of the parties hereto arising prior to such termination or in respect of any provision of this Agreement which survives such termination.

SECTION 12.18 USA PATRIOT Act; Anti-Money Laundering Laws. The Administrative Agent and each Lender hereby notifies the Borrower that pursuant to the requirements of the PATRIOT Act or any other Anti-Money Laundering Laws, each of them is required to obtain, verify and record information that identifies each Credit Party, which information includes the name and address of each Credit Party and other information that will allow such Lender to identify each Credit Party in accordance with the PATRIOT Act or such Anti-Money Laundering Laws.

SECTION 12.19 Independent Effect of Covenants. The Borrower expressly acknowledges and agrees that each covenant contained in Articles VIII or IX hereof shall be given independent effect. Accordingly, the Borrower shall not engage in any transaction or other act otherwise permitted under any covenant contained in Articles VIII or IX, before or after giving effect to such transaction or act, the Borrower shall or would be in breach of any other covenant contained in Articles VIII or IX.

SECTION 12.20 No Advisory or Fiduciary Responsibility.

(a) In connection with all aspects of each transaction contemplated hereby, each Credit Party acknowledges and agrees, and acknowledges its Affiliates' understanding, that (i) the facilities provided for hereunder and any related arranging or other services in connection therewith (including in connection with any amendment, waiver or other modification hereof or of any other Loan Document) are an arm's-length commercial transaction between the Borrower and its Subsidiaries, on the one hand, and the Administrative Agent, the Arrangers and the Lenders, on the other hand, and the Borrower is capable of evaluating and understanding and understands and accepts the terms, risks and conditions of the transactions contemplated hereby and by the other Loan Documents (including any amendment, waiver or other modification hereof or thereof), (ii) in connection with the process leading to such transaction, each of the Administrative Agent, the Arrangers and the Lenders is and has been acting solely as a principal and is not the financial advisor, agent or fiduciary, for the Borrower or any of its Affiliates, stockholders, creditors or employees or any other Person, (iii) none of the Administrative Agent, the Arrangers or the Lenders has assumed or will assume an advisory, agency or fiduciary responsibility in favor of the Borrower with respect to any of the transactions contemplated hereby or the process leading thereto, including with respect to any amendment, waiver or other modification hereof or of any other Loan Document (irrespective of whether any Arranger or Lender has advised or is currently advising the Borrower or any of its Affiliates on other matters) and none of the Administrative Agent, the Arrangers or the Lenders has any obligation to the Borrower or any of its Affiliates with respect to the financing transactions contemplated hereby except those obligations expressly set forth herein and in the other Loan Documents, (iv) the Arrangers and the Lenders and their respective Affiliates may be engaged in a broad range of transactions that involve interests that differ from, and may conflict with, those of the Borrower and its Affiliates, and none of the Administrative Agent, the Arrangers or the Lenders has any obligation to disclose any of such interests by virtue of any advisory, agency or fiduciary relationship and (v) the Administrative Agent, the Arrangers and the Lenders have not provided and will not provide any

legal, accounting, regulatory or tax advice with respect to any of the transactions contemplated hereby (including any amendment, waiver or other modification hereof or of any other Loan Document) and the Credit Parties have consulted their own legal, accounting, regulatory and tax advisors to the extent they have deemed appropriate.

(b) Each Credit Party acknowledges and agrees that each Lender, the Arrangers and any Affiliate thereof may lend money to, invest in, and generally engage in any kind of business with, any of the Borrower, any Affiliate thereof or any other person or entity that may do business with or own securities of any of the foregoing, all as if such Lender, Arranger or Affiliate thereof were not a Lender or Arranger or an Affiliate thereof (or an agent or any other person with any similar role under the Credit Facilities) and without any duty to account therefor to any other Lender, the Arrangers, the Borrower or any Affiliate of the foregoing. Each Lender, the Arrangers and any Affiliate thereof may accept fees and other consideration from the Borrower or any Affiliate thereof for services in connection with this Agreement, the Credit Facilities or otherwise without having to account for the same to any other Lender, the Arrangers, the Borrower or any Affiliate of the foregoing.

SECTION 12.21 Inconsistencies with Other Documents. In the event there is a conflict or inconsistency between this Agreement and any other Loan Document, the terms of this Agreement shall control; provided that any provision of the Collateral Documents which imposes additional burdens on the Borrower or any of its Subsidiaries or further restricts the rights of the Borrower or any of its Subsidiaries or gives the Administrative Agent or Lenders additional rights shall not be deemed to be in conflict or inconsistent with this Agreement and shall be given full force and effect.

SECTION 12.22 Judgment Currency. If, for the purposes of obtaining judgment in any court, it is necessary to convert a sum due hereunder or any other Loan Document in one currency into another currency, the rate of exchange used shall be that at which in accordance with normal banking procedures the Administrative Agent could purchase the first currency with such other currency on the Business Day preceding that on which final judgment is given. The obligation of the Borrower in respect of any such sum due from it to the Administrative Agent or any Lender hereunder or under the other Loan Documents shall, notwithstanding any judgment in a currency (the “Judgment Currency”) other than that in which such sum is denominated in accordance with the applicable provisions of this Agreement (the “Agreement Currency”), be discharged only to the extent that on the Business Day following receipt by the Administrative Agent or such Lender, as the case may be, of any sum adjudged to be so due in the Judgment Currency, the Administrative Agent or such Lender, as the case may be, may in accordance with normal banking procedures purchase the Agreement Currency with the Judgment Currency. If the amount of the Agreement Currency so purchased is less than the sum originally due to the Administrative Agent or any Lender from the Borrower in the Agreement Currency, the Borrower agrees, as a separate obligation and notwithstanding any such judgment, to indemnify the Administrative Agent or such Lender, as the case may be, against such loss. If the amount of the Agreement Currency so purchased is greater than the sum originally due to the Administrative Agent or any Lender in such currency, the Administrative Agent or such Lender, as the case may be, agrees to return the amount of any excess to the Borrower (or to any other Person who may be entitled thereto under applicable law).

SECTION 12.23 Acknowledgement and Consent to Bail-In of Affected Financial Institutions. Notwithstanding anything to the contrary in any Loan Document or in any other agreement, arrangement or understanding among any such parties, each party hereto acknowledges that any liability of any Affected Financial Institution arising under any Loan Document, to the extent such liability is unsecured, may be subject to the Write-Down and Conversion Powers of the applicable Resolution Authority and agrees and consents to, and acknowledges and agrees to be bound by:

(a) the application of any Write-Down and Conversion Powers by the applicable Resolution Authority to any such liabilities arising hereunder which may be payable to it by any party hereto that is an Affected Financial Institution; and

(b) the effects of any Bail-in Action on any such liability, including, if applicable:

- (i) a reduction in full or in part or cancellation of any such liability;
- (ii) a conversion of all, or a portion of, such liability into shares or other instruments of ownership in such Affected Financial Institution, its parent undertaking, or a bridge institution that may be issued to it or otherwise conferred on it, and that such shares or other instruments of ownership will be accepted by it in lieu of any rights with respect to any such liability under this Agreement or any other Loan Document; or
- (iii) the variation of the terms of such liability in connection with the exercise of the Write-Down and Conversion Powers of the applicable Resolution Authority.

SECTION 12.24 Amendment and Restatement; No Novation. This Agreement constitutes an amendment and restatement of the Existing Credit Agreement in its entirety, effective from and after the Closing Date. The execution and delivery of this Agreement shall not constitute a novation of any indebtedness or other obligations owing to the Lenders or the Administrative Agent under the Existing Credit Agreement based on facts or events occurring or existing prior to the execution and delivery of this Agreement. On the Closing Date, the credit facilities described in the Existing Credit Agreement, shall be amended, supplemented, modified and restated in their entirety by the facilities described herein, and (a) all loans and other obligations of the Borrower outstanding as of such date under the Existing Credit Agreement, shall be deemed to be loans and obligations outstanding under the corresponding facilities described herein, (b) all Existing Letters of Credit which remain outstanding on the Closing Date shall continue as Letters of Credit under this Agreement, and (c) all Secured Hedge Agreement and Secured Cash Management Agreements existing on the Closing Date shall continue as Secured Hedge Agreements and Secured Cash Management Agreements under this Agreement, without any further action by any Person, except that the Administrative Agent shall make such transfers of funds as are necessary in order that the outstanding balance of such Loans, together with any Loans funded on the Closing Date, reflect the respective Revolving Credit Commitment of the Lenders hereunder. By execution of this Agreement, each of the parties hereto who are parties to the Existing Credit Agreement consents to the amendment and restatement of the Existing Credit Agreement pursuant to the terms hereof.

SECTION 12.25 Certain ERISA Matters.

(a) Each Lender (x) represents and warrants, as of the date such Person became a Lender party hereto, and (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Administrative Agent, each Arranger and their respective Affiliates, and not, for the avoidance of doubt, to or for the benefit of the Borrower or any other Credit Party, that at least one of the following is and will be true:

- (i) such Lender is not using “plan assets” (within the meaning of Section 3(42) of ERISA or otherwise for purposes of Title I of ERISA or Section 4975 of the Code) of one or more Benefit Plans with respect to such Lender’s entrance into, participation in, administration of and performance of the Loans, the Letters of Credit or the Commitments or this Agreement;

(ii) the prohibited transaction exemption set forth in one or more PTEs, such as PTE 84-14 (a class exemption for certain transactions determined by independent qualified professional asset managers), PTE 95-60 (a class exemption for certain transactions involving insurance company general accounts), PTE 90-1 (a class exemption for certain transactions involving insurance company pooled separate accounts), PTE 91-38 (a class exemption for certain transactions involving bank collective investment funds) or PTE 96-23 (a class exemption for certain transactions determined by in-house asset managers), is applicable so as to exempt from the prohibitions of Section 406 of ERISA and Section 4975 of the Code such Lender's entrance into, participation in, administration of and performance of the Loans, the Letters of Credit, the Commitments and this Agreement;

(iii) (A) such Lender is an investment fund managed by a "Qualified Professional Asset Manager" (within the meaning of Part VI of PTE 84-14), (B) such Qualified Professional Asset Manager made the investment decision on behalf of such Lender to enter into, participate in, administer and perform the Loans, the Letters of Credit, the Commitments and this Agreement, (C) the entrance into, participation in, administration of and performance of the Loans, the Letters of Credit, the Commitments and this Agreement satisfies the requirements of sub-sections (b) through (g) of Part I of PTE 84-14 and (D) to the best knowledge of such Lender, the requirements of subsection (a) of Part I of PTE 84-14 are satisfied with respect to such Lender's entrance into, participation in, administration of and performance of the Loans, the Letters of Credit, the Commitments and this Agreement; or

(iv) such other representation, warranty and covenant as may be agreed in writing between the Administrative Agent, in its sole discretion, and such Lender.

(b) In addition, unless either (1) sub-clause (i) in the immediately preceding clause (a) is true with respect to a Lender or (2) a Lender has provided another representation, warranty and covenant in accordance with sub-clause (iv) in the immediately preceding clause (a), such Lender further (x) represents and warrants, as of the date such Person became a Lender party hereto, and (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Administrative Agent, each Arranger and their respective Affiliates, and not, for the avoidance of doubt, to or for the benefit of the Borrower or any other Credit Party, that none of the Administrative Agent, any Arranger and their respective Affiliates is a fiduciary with respect to the assets of such Lender involved in such Lender's entrance into, participation in, administration of and performance of the Loans, the Letters of Credit, the Commitments and this Agreement (including in connection with the reservation or exercise of any rights by the Administrative Agent under this Agreement, any Loan Document or any documents related hereto or thereto).

SECTION 12.26 Acknowledgement Regarding Any Supported QFCs. To the extent that the Loan Documents provide support, through a guarantee or otherwise, for Hedge Agreements or any other agreement or instrument that is a QFC (such support, "QFC Credit Support" and, each such QFC, a "Supported QFC"), the parties acknowledge and agree as follows with respect to the resolution power of the FDIC under the Federal Deposit Insurance Act and Title II of the Dodd-Frank Wall Street Reform and Consumer Protection Act (together with the regulations promulgated thereunder, the "U.S. Special Resolution Regimes") in respect of such Supported QFC and QFC Credit Support (with the provisions below applicable notwithstanding that the Loan Documents and any Supported QFC may in fact be stated to be governed by the laws of the State of New York and/or of the United States or any other state of the United States):

(a) In the event a Covered Entity that is party to a Supported QFC (each, a "Covered Party") becomes subject to a proceeding under a U.S. Special Resolution Regime, the transfer of such Supported

QFC and the benefit of such QFC Credit Support (and any interest and obligation in or under such Supported QFC and such QFC Credit Support, and any rights in property securing such Supported QFC) from such Covered Party will be effective to the same extent as the transfer would be effective under the U.S. Special Resolution Regime if the Supported QFC and such QFC Credit Support (and any such interest, obligation and rights in property) were governed by the laws of the United States or a state of the United States. In the event a Covered Party or a BHC Act Affiliate of a Covered Party becomes subject to a proceeding under a U.S. Special Resolution Regime, Default Rights under the Loan Documents that might otherwise apply to such Supported QFC or any QFC Credit Support that may be exercised against such Covered Party are permitted to be exercised to no greater extent than such Default Rights could be exercised under the U.S. Special Resolution Regime if the Supported QFC and the Loan Documents were governed by the laws of the United States or a state of the United States. Without limitation of the foregoing, it is understood and agreed that rights and remedies of the parties with respect to a Defaulting Lender shall in no event affect the rights of any Covered Party with respect to a Supported QFC or any QFC Credit Support.

(b) As used in this Section 12.26, the following terms have the following meanings:

“BHC Act Affiliate” of a party means an “affiliate” (as such term is defined under, and interpreted in accordance with, 12 U.S.C. 1841(k)) of such party.

“Covered Entity” means any of the following:

- (i) a “covered entity” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 252.82(b);
- (ii) a “covered bank” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 47.3(b); or
- (iii) a “covered FSI” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 382.2(b).

“Default Right” has the meaning assigned to that term in, and shall be interpreted in accordance with, 12 C.F.R. §§ 252.81, 47.2 or 382.1, as applicable.

“QFC” has the meaning assigned to the term “qualified financial contract” in, and shall be interpreted in accordance with, 12 U.S.C. 5390(c)(8)(D).

[Signature pages omitted]

Summary report:	
Litera Compare for Word 11.6.0.100 Document comparison done on	
4/29/2024 1:32:37 PM	
Style name: Default Style	
Intelligent Table Comparison: Active	
Original DMS: iw://dmsus.mwllp.dom/ACTIVE/188290905/1	
Modified DMS: iw://dmsus.mwllp.dom/ACTIVE/188290905/7	
Changes:	
Add	540
Delete	491
Move From	82
Move To	82
Table Insert	25
Table Delete	0
Table moves to	0
Table moves from	0
Embedded Graphics (Visio, ChemDraw, Images etc.)	0
Embedded Excel	0
Format changes	0
Total Changes:	1220

ANNEX B
To Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Annex B

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Schedule 7.13
Subsidiaries and Other Equity Investments; Credit Parties

Part (a) Subsidiaries of each Credit Party

See the attached organizational chart for the Subsidiaries of each Credit Party. Each Subsidiary of a Credit Party shown on the attached organizational chart is 100% owned, directly or indirectly, by a Credit Party, unless indicated otherwise.

Each of the following Subsidiaries is an Immaterial Subsidiary as March 31, 2024:

1. 400 Professional LLC
2. Emergent Protective Products USA Inc.
3. Emergent Commercial Operations Frederick Inc.
4. Emergent Europe Inc.

Part (b) Equity Investments owned by any Credit Party

Part (a) of this Schedule 7.13 is incorporated herein by reference.

Part (c) Jurisdiction, Principal Place of Business and U.S. Taxpayer ID Numbers or Organizational ID Numbers

<u>Credit Party</u>	<u>Jurisdiction of Formation</u>	<u>Principal Place of Business</u>	<u>U.S. Taxpayer ID Number or, if none, State-Issued Organizational ID</u>
Emergent BioSolutions Inc.	Delaware	300 Professional Drive Gaithersburg, Maryland 20879	[**]
Emergent BioDefense Operations Lansing LLC	Delaware	3500 N. Martin Luther King Jr. Blvd. Lansing, Michigan 48906	[**]
Emergent Manufacturing Operations Baltimore LLC	Delaware	300 Professional Drive Gaithersburg, Maryland 20879	[**]
Emergent Product Development Gaithersburg Inc.	Delaware	300 Professional Drive, Suite 100 Gaithersburg, Maryland 20879	[**]
Cangene bioPharma LLC	Maryland	1111 S. Paca Street Baltimore, MD 21230	[**]
Emergent International Inc.	Delaware	300 Professional Drive Gaithersburg, Maryland 20879	[**]
Emergent Devices Inc. (f/k/a Adapt Pharma Inc.)	Delaware	401 Plymouth Road, Suite 400 Plymouth Meeting, PA 19462	[**]
Emergent Travel Health Inc. (f/k/a PaxVax Inc.)	Delaware	555 Twin Dolphin Drive, Suite 360 Redwood City, CA 94065	[**]
Emergent BioSolutions Canada Inc.	Canada	155 Innovation Drive Winnipeg, Manitoba R3T 5Y3	US FEIN: [**] CAN GST: [**]

ANNEX C
To Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement

Emergent BioSolutions Inc.
Consent, Waiver and Seventh Amendment to Amended and Restated Credit Agreement
Annex C

187986513_7

SCHEDULE 3.6
to
Collateral Agreement

Commercial Tort Claims

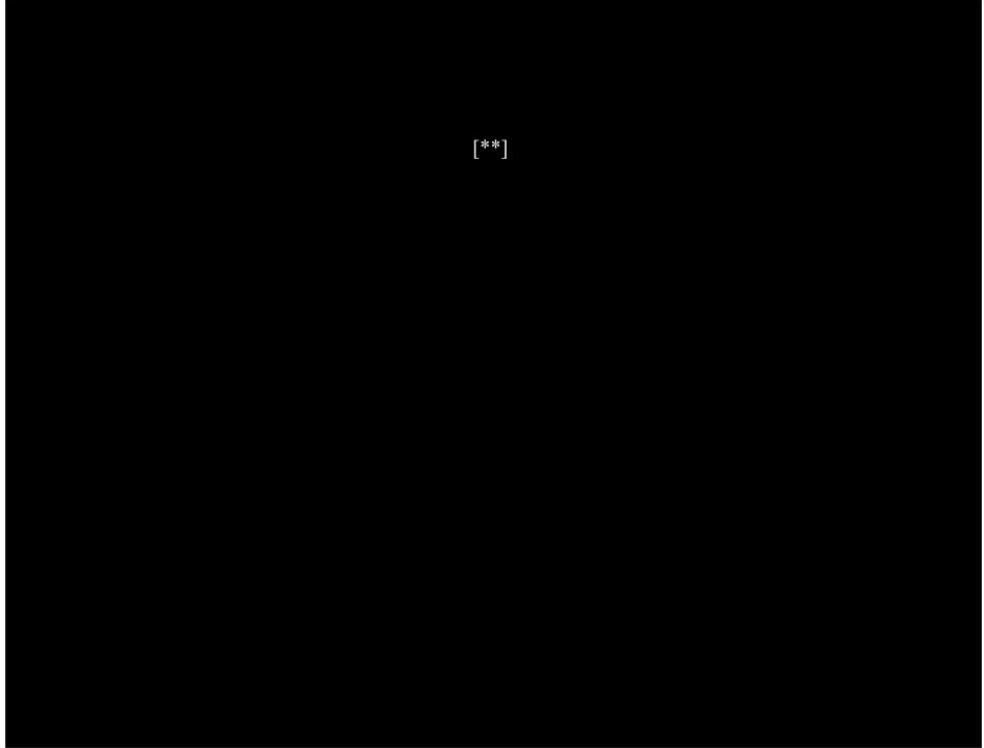
None.

SCHEDULE 3.7
to
Collateral Agreement

Deposit Accounts and Securities Accounts

See attachment.

**Schedule 3.7 to Collateral Agreement
Deposit Accounts and Securities Accounts**



[**]

SCHEDULE 3.10
to
Collateral Agreement

Investment Property and Partnership LLC Interests

<u>Subsidiary</u>	<u>Owner</u>	<u>Percentage Equity Ownership</u>	<u>Shares</u>	<u>Certificated (Y/N)</u>
Emergent Product Development Gaithersburg Inc.**	Emergent BioSolutions Inc.	[**]	[**]	Y
Emergent BioDefense Operations Lansing LLC**	Emergent BioSolutions Inc.	[**]	N/A	N
Emergent International Inc.**	Emergent BioSolutions Inc.	[**]	[**]	Y
Emergent Manufacturing Operations Baltimore LLC**	Emergent BioSolutions Inc.	[**]	N/A	N
Emergent Protective Products USA Inc.	Emergent BioSolutions Inc.	[**]	[**]	Y
Emergent BioSolutions Canada Inc.**	Emergent BioSolutions Inc.	[**]	[**]	Y
400 Professional LLC	Emergent BioSolutions Inc.	[**]	N/A	N
Cangene bioPharma LLC**	Emergent BioSolutions Inc.	[**]	N/A	N
Emergent Europe Inc.	Emergent International Inc.	[**]	[**]	Y
	Emergent[©]nmercial Operations Frederick Inc.		[**]	Y
Emergent Acquisition Unlimited Company	Emergent International Inc.	[**]	[**]	N
Emergent BioSolutions Ireland Limited	Emergent Acquisition Unlimited Company	[**]	[**]	N
Emergent BioSolutions UK Ltd.	Emergent International Inc.	[**]	[**]	N
Emergent Commercial Operations Frederick Inc.	Emergent BioSolutions Inc.	[**]	[**]	Y
Emergent Operations Ireland Limited	Emergent BioSolutions Ireland Limited	[**]	[**]	Y
Emergent Travel Health Inc.	Emergent BioSolutions Inc.	[**]	[**]	N
Emergent Devices Inc.	Emergent BioSolutions Inc.	[**]	[**]	Y
Emergent Netherlands B.V.	Emergent International Inc.	[**]	[**]	N
Emergent Sales and Marketing Australia Pty Ltd.	Emergent Europe Inc.	[**]	[**]	N
Emergent Sales and Marketing France S.A.S.	Emergent International Inc.	[**]	[**]	N
Emergent Sales and Marketing Germany GmbH	Emergent Europe Inc.	[**]	[**]	N
Emergent Sales and Marketing Singapore Pte. Ltd.	Emergent Europe Inc.	[**]	[**]	N

***Denotes Guarantor*

SCHEDULE 3.11
to
Collateral Agreement

Instruments

Intercompany Note dated October 15, 2018, made by Emergent Acquisition Unlimited Company ("EAU" previously "EAL") payable to Emergent International Inc. ("EII") in the amount [**]

2 Intercompany Loan Agreement dated October 15, 2018, made by Emergent Acquisition Unlimited Company ("EAU" previously "EAL") payable to Emergent International Inc. ("EII") in the amount[**].

Intercompany Loan Agreement dated October 15, 2018, by Emergent International Inc. ("EII") payable to the Borrower in the principal amount of [**].

4 Intercompany Loan Agreement dated June 17, 2021, by the Borrower payable to Emergent Product Development Gaithersburg Inc. ("EPDG") for a loan in the original principal amount of [**].

Intercompany Loan Agreement dated June 17, 2021, by Emergent Manufacturing Operations Baltimore LLC ("EMOB") payable to Emergent Product Development Gaithersburg Inc. ("EPDG") for a loan in the original principal amount of [**].

Intercompany Loan Agreement dated February 20, 2023, by Emergent BioSolutions UK Ltd. ("EBUK") payable to Emergent International Inc. ("EII") for a loan in the principal amount of [**].

Intercompany Loan Agreement dated February 20, 2023, by Emergent International Inc. ("EII") payable to the Borrower for a loan in the principal amount of [**].

Intercompany Loan Agreement dated June 11, 2021, by Emergent Europe Inc. ("EEI") payable to the Borrower for a loan in the amount of [**].

Intercompany Loan dated March 2019 through February 2021, by Emergent Sales and Marketing Germany ("ESMD") payable to the Borrower for a loan in the amount of [**].

Certain identified information has been excluded from this exhibit because it is (i) not material and (ii) is the type of information that the registrant treats as private or confidential. Double asterisks denote omission.

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30				1. REQUISITION NUMBER	PAGE 1 OF 26	
2. CONTRACT NO. W911SR24D0001	3. AWARD/DEFFECTIVE DATE 09-Jan-2024	4. ORDER NUMBER	5. SOLICITATION NUMBER	6. SOLICITATION ISSUE DATE		
7. FOR SOLICITATION INFORMATION CALL:	a. NAME	b. TELEPHONE NUMBER (No Collect Calls)			8. OFFER DUE DATE/LOCAL TIME	
9. ISSUED BY USA CONTRACTING CMD-APG. - W911SR EDGEWOOD CONTRACTING DIVISION 8456 BRIGADE STREET BLDG E4215 ABERDEEN PROVING GROUND MD 21010-5401 TEL: FAX:	CODE W911SR	10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: % FOR: <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> WOMEN-OWNED SMALL BUSINESS (WOSB) <input type="checkbox"/> HUBZONE SMALL <input type="checkbox"/> ELIGIBLE UNDER THE WOMEN-OWNED <input type="checkbox"/> BUSINESS <input type="checkbox"/> SMALL BUSINESS PROGRAM <input type="checkbox"/> SERVICE-DISABLED <input type="checkbox"/> NAICS: <input type="checkbox"/> VETERAN-OWNED <input type="checkbox"/> 325411 <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> 8(A) SIZE STANDARD: 1,000				
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input checked="" type="checkbox"/> SEE SCHEDULE	12. DISCOUNT TERMS	<input type="checkbox"/> 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)	13b. RATING			
15. DELIVER TO JPM CBRN MEDICAL KEVIN WATTS 110 THOMAS JOHNSON DR FREDERICK MD 21702	CODE W56XNH	16. ADMINISTERED BY	CODE			
SEE ITEM 9						
17a. CONTRACTOR/ OFFEROR CODE 1HOB6	FACILITY CODE	18a. PAYMENT WILL BE MADE BY DFAS-INDY VP GREFS 8899 E 56TH STREET INDIANAPOLIS IN 46249-3800	CODE HQ0490			
TELEPHONE NO.						
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM				
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT	
SEE SCHEDULE						
25. ACCOUNTING AND APPROPRIATION DATA				26. TOTAL AWARD AMOUNT (For Govt. Use Only) \$235,800,000.00		
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4, FAR 52.212-3, 52.212-5 ARE ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED <input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4, FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED						
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 1 COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED.		29. AWARD OF CONTRACT: REF. OFFER DATED . YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:				
30a. SIGNATURE OF OFFEROR/CONTRACTOR <i>MAZEN.BRIAN.E.1387</i> 647780		31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER) Digitally signed by MAZEN.BRIAN.E.1387647780 Date: 2024.01.09 07:34:38 -05'00'				
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT) [**] Reason: I approve this document Date: Jan 5, 2024 15:43 EST	30c. DATE SIGNED Electronically signed by: [**] [**]	31b. NAME OF CONTRACTING OFFICER Brian Mazen/Contracting Officer TEL: 502-671-3728 EMAIL: brian.e.mazen.civ@army.mil	(TYPE OR PRINT)		31c. DATE SIGNED 1/9/2024	
AUTHORIZED FOR LOCAL REPRODUCTION PREVIOUS EDITION IS NOT USABLE						
STANDARD FORM 1449 (REV. 2/2012) Prescribed by GSA - FAR (48 CFR) 53.212						

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS (CONTINUED)							PAGE 2 OF 26	
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES			21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT	
	SEE SCHEDULE							
<p>32a. QUANTITY IN COLUMN 21 HAS BEEN</p> <p><input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____</p>								
32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE				32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
				32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
33. SHIP NUMBER	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR		36. PAYMENT		37. CHECK NUMBER		
<input type="checkbox"/> PARTIAL	<input type="checkbox"/> FINAL			<input type="checkbox"/> COMPLETE	<input type="checkbox"/> PARTIAL	<input type="checkbox"/> FINAL		
38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY						
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT		42a. RECEIVED BY (Print)						
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	42b. RECEIVED AT (Location)					
			42c. DATE REC'D (YY/MM/DD)					
			42d. TOTAL CONTAINERS					

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION IS NOT USABLE

STANDARD FORM 1449 (REV. 2/2012) BACK
Prescribed by GSA – FAR (48 CFR) 53.212

Section SF 30 - BLOCK 14 CONTINUATION PAGE

EXECUTIVE SUMMARY

1. Contract W911SR-24-D-0001 is awarded to Emergent Biodefense Operations Lansing LLC (Emergent). This contract is for a single award, Indefinite Delivery/Indefinite Quantity (IDIQ) for the effort titled, "Procurement of BioThrax® (Anthrax Vaccine Adsorbed) (BioThrax®) as Pre-Exposure Prophylaxis (PrEP) for Anthrax Disease."
2. The total base ordering period for this contract shall be from 01 January 2024 to 30 September 2028.
3. This contract includes an optional five year ordering period that shall be from 01 October 2028 to 30 September 2033.
4. The ceiling for this IDIQ vehicle is \$235,800,000.00. No one order, or any combination of orders placed during the any ordering period, shall exceed the ceiling value.
5. The Government guarantees that when an order is placed, the minimum order in a given ordering period shall be [* *] doses.
6. The guaranteed minimum amount of this IDIQ vehicle shall be \$ [* *] via delivery order 01, with the intent of this amount being funded in an Order for the 2023-2024 period.

Section SF 1449 - CONTINUATION SHEET

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001	BioThrax® (Anthrax Vaccine Adsorbed) FFP	UNDEFINED	Each	UNDEFINED	\$0.00
	The contractor shall provide the quantity of doses of BioThrax® (Anthrax Vaccine Adsorbed) as specified in each Delivery Order.				
	FOB: Origin (Shipping Point)				
	PSC CD: 6505				

MAX NET AMT	\$0.00
-------------	--------

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002	CDRL A01-Quarterly Status Reports FFP	UNDEFINED	Each		NSP
	The contractor shall provide the data report as specified in the Contract Data Requirements List A01 and in Performance Work Statement, Section 4 Meeting and Reporting Requirements.				
	FOB: Origin (Shipping Point)				
	PSC CD: 6505				

MAX NET AMT

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
---------	-------------------	--------------	------	------------	------------

0003	CDRL A02- Risk Mitigation Plan	UNDEFINED	Each		NSP
------	--------------------------------	-----------	------	--	-----

FFP

The contractor shall provide the data report as specified in the Contract Data

Requirements List A02 and in Performance Work Statement Section 5 Risks.

FOB: Origin (Shipping Point)

PSC CD: 6505

MAX
NET AMT

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
---------	-------------------	--------------	------	------------	------------

0004	Total Estimated Contract Value	1	Each	\$235,800,000.00	\$235,800,000.00
------	--------------------------------	---	------	------------------	------------------

FFP

The purpose of this CLIN is to establish the total estimated contract value. The maximum value (ordering ceiling) on this contract is \$235,800,000.00. This CLIN was created for reporting purposes only.

FOB: Origin (Shipping Point)

PSC CD: 6505

MAX
NET AMT

\$235,800,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1001 OPTION	BioThrax® (Anthrax Vaccine Adsorbed) FFP	UNDEFINED	Each	UNDEFINED	\$0.00
The contractor shall provide the quantity of doses of BioThrax® (Anthrax Vaccine Adsorbed) as specified in each Delivery Order.					
FOB: Origin (Shipping Point)					
PSC CD: 6505					
				MAX NET AMT	\$0.00

CONTRACT MINIMUM/MAXIMUM QUANTITY AND CONTRACT VALUE

The minimum quantity and contract value for all orders issued against this contract shall not be less than the minimum quantity and contract value stated in the following table. The maximum quantity and contract value for all orders issued against this contract shall not exceed the maximum quantity and contract value stated in the following table.

MINIMUM QUANTITY	MINIMUM AMOUNT	MAXIMUM QUANTITY	MAXIMUM AMOUNT
[* *]	\$20,100,000.00	[* *]	\$235,800,000.00

CLIN MINIMUM/MAXIMUM QUANTITY AND CLIN VALUE

The minimum quantity(s) and CLIN value(s) for all orders issued against the CLIN(s) on this contract shall not be less than the minimum quantity(s) and CLIN value(s) stated in the following table. The maximum quantity(s) and CLIN value(s) for all orders issued against the CLIN(s) on this contract shall not exceed the maximum quantity(s) and CLIN value(s) stated in the following table.

CLIN	MINIMUM QUANTITY	MINIMUM AMOUNT	MAXIMUM QUANTITY	MAXIMUM AMOUNT
0001	[* *]			
1001	[* *]			

CLIN DELIVERY/TASK ORDER MINIMUM/MAXIMUM QUANTITY AND CLIN ORDER VALUE

The minimum quantity and order value for the given Delivery/Task Order issued for this CLIN shall not be less than the minimum quantity and order value stated in the following table. The maximum quantity and order value for the given Delivery/Task Order issued for this CLIN shall not exceed the maximum quantity and order value stated in the following table.

CLIN	MINIMUM QUANTITY [* *]	MINIMUM AMOUNT \$	MAXIMUM QUANTITY	MAXIMUM AMOUNT \$
0002		\$		\$
0003		\$		\$
0004		\$		\$
1001	[* *]	\$		\$

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Origin	Government	Origin	Government
0002	Origin	Government	Origin	Government
0003	Origin	Government	Origin	Government
0004	Origin	Government	Origin	Government
1001	Origin	Government	Origin	Government

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Origin	Government	Origin	Government
0002	Origin	Government	Origin	Government
0003	Origin	Government	Origin	Government
0004	Origin	Government	Origin	Government
1001	Origin	Government	Origin	Government

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	POP 01-JAN-2024 TO 30-SEP-2028	N/A	JPM CBRN MEDICAL KEVIN WATTS 110 THOMAS JOHNSON DR FREDERICK MD 21702 240-529-2081 FOB: Origin (Shipping Point)	W56XNH
0002	POP 01-JAN-2024 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH
0003	POP 01-JAN-2024 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH
0004	POP 01-JAN-2024 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH
1001	POP 01-OCT-2028 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	POP 01-JAN-2024 TO 30-SEP-2028	N/A	JPM CBRN MEDICAL KEVIN WATTS 110 THOMAS JOHNSON DR FREDERICK MD 21702 240-529-2081 FOB: Origin (Shipping Point)	W56XNH
0002	POP 01-JAN-2024 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH
0003	POP 01-JAN-2024 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH
0004	POP 01-JAN-2024 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH
1001	POP 01-OCT-2028 TO 30-SEP-2033	N/A	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH

CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUN 2020
52.203-3	Gratuities	APR 1984
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 2020
52.203-19	Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements	JAN 2017
52.204-4	Printed or Copied Double-Sided on Postconsumer Fiber Content Paper	MAY 2011
52.204-13	System for Award Management Maintenance	OCT 2018
52.204-16	Commercial and Government Entity Code Reporting	AUG 2020
52.204-17	Ownership or Control of Offeror	AUG 2020
52.204-18	Commercial and Government Entity Code Maintenance	AUG 2020
52.204-19	Incorporation by Reference of Representations and Certifications.	DEC 2014
52.204-20	Predecessor of Offeror	AUG 2020
52.204-21	Basic Safeguarding of Covered Contractor Information Systems	NOV 2021
52.204-23	Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities	NOV 2021
52.204-25	Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment	NOV 2021
52.209-7	Information Regarding Responsibility Matters	OCT 2018
52.212-4	Contract Terms and Conditions--Commercial Products and Commercial Services	DEC 2022
52.216-18	Ordering	AUG 2020
52.216-19	Order Limitations	OCT 1995
52.232-39	Unenforceability of Unauthorized Obligations	JUN 2013
52.233-3	Protest After Award	AUG 1996
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.247-29	F.O.B. Origin	FEB 2006
52.247-30	F.O.B. Origin, Contractor's Facility	FEB 2006
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	SEP 2011
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	DEC 2022
252.203-7003	Agency Office of the Inspector General	AUG 2019
252.204-7002	Payment For Contract Line or Subline Items Not Separately Priced	APR 2020
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7012	Safeguarding Covered Defense Information and Cyber Incident Reporting	JAN 2023
252.204-7015	Notice of Authorized Disclosure of Information for Litigation Support	JAN 2023
252.204-7018	Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services	JAN 2023
252.204-7022	Expediting Contract Closeout	MAY 2021
252.205-7000	Provision Of Information To Cooperative Agreement Holders	JUN 2023
252.211-7003	Item Unique Identification and Valuation	JAN 2023
252.223-7008	Prohibition of Hexavalent Chromium	JAN 2023
252.225-7001	Buy American And Balance Of Payments Program--Basic	JAN 2023

252.225-7007	Prohibition on Acquisition of Certain Items from Communist Chinese Military Companies	DEC 2018
252.225-7012	Preference For Certain Domestic Commodities	APR 2022
252.225-7048	Export-Controlled Items	JUN 2013
252.225-7056	Prohibition Regarding Business Operations with the Maduro Regime	JAN 2023
252.226-7001	Utilization of Indian Organizations, Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	JAN 2023
252.227-7015	Technical Data--Commercial Products and Commercial Services	MAR 2023
252.227-7037	Validation of Restrictive Markings on Technical Data	JAN 2023
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	DEC 2018
252.232-7010	Levies on Contract Payments	DEC 2006
252.243-7002	Requests for Equitable Adjustment	DEC 2022
252.244-7000	Subcontracts for Commercial Products or Commercial Services	JAN 2023

CLAUSES INCORPORATED BY FULL TEXT

52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL PRODUCTS AND COMMERCIAL SERVICES (JUN 2023)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial products and commercial services:

(1) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

(2) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (NOV 2021) (Section 1634 of Pub. L. 115-91).

(3) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (NOV 2021) (Section 889(a)(1)(A) of Pub. L. 115-232).

(4) 52.209-10, Prohibition on Contracting with Inverted Domestic Corporations (NOV 2015).

(5) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (MAR 2023) (31 U.S.C. 3903 and 10 U.S.C. 3801).

(6) 52.233-3, Protest After Award (AUG 1996) (31 U.S.C. 3553).

(7) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Public Laws 108-77 and 108-78 (19 U.S.C. 3805 note)).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial products and commercial services: [Contracting Officer check as appropriate.]

XX (1) 52.203-6, Restrictions on Subcontractor Sales to the Government (JUN 2020), with Alternate I (NOV 2021) (41 U.S.C. 4704 and 10 U.S.C. 4655).

XX (2) 52.203-13, Contractor Code of Business Ethics and Conduct (NOV 2021) (41 U.S.C. 3509).

____ (3) 52.203-15, Whistleblower Protections under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5). (Applies to contracts funded by the American Recovery and Reinvestment Act of 2009.)

XX (4) 52.204-10, Reporting Executive Compensation and First-Tier Subcontract Awards (JUN 2020) (Pub. L. 109-282) (31 U.S.C. 6101 note).

____ (5) [Reserved]

____ (6) 52.204-14, Service Contract Reporting Requirements (OCT 2016) (Pub. L. 111-117, section 743 of Div. C).

____ (7) 52.204-15, Service Contract Reporting Requirements for Indefinite-Delivery Contracts (OCT 2016) (Pub. L. 111-117, section 743 of Div. C).

XX (8) 52.204-27, Prohibition on a ByteDance Covered Application (JUN 2023) (Section 102 of Division R of Pub. L. 117-328).

XX (9) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment. (NOV 2021) (31 U.S.C. 6101 note).

XX (10) 52.209-9, Updates of Publicly Available Information Regarding Responsibility Matters (OCT 2018) (41 U.S.C. 2313).

____ (11) [Reserved]

____ (12) 52.219-3, Notice of HUBZone Set-Aside or Sole-Source Award (OCT 2022) (15 U.S.C. 657a).

____ (13) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (OCT 2022) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).

____ (14) [Reserved]

____ (15)(i) 52.219-6, Notice of Total Small Business Set-Aside (NOV 2020) (15 U.S.C. 644).

____ (ii) Alternate I (MAR 2020) of 52.219-6.

____ (16)(i) 52.219-7, Notice of Partial Small Business Set-Aside (NOV 2020) (15 U.S.C. 644).

____ (ii) Alternate I (MAR 2020) of 52.219-7.

XX (17) 52.219-8, Utilization of Small Business Concerns (OCT 2022) (15 U.S.C. 637(d)(2) and (3)).

____ (18)(i) 52.219-9, Small Business Subcontracting Plan (OCT 2022) (15 U.S.C. 637(d)(4)).

____ (ii) Alternate I (NOV 2016) of 52.219-9.

____ (iii) Alternate II (NOV 2016) of 52.219-9.

- ____ (iv) Alternate III (JUN 2020) of 52.219-9.
- ____ (v) Alternate IV (SEP 2021) of 52.219-9.
- ____ (19) (i) 52.219-13, Notice of Set-Aside of Orders (MAR 2020) (15 U.S.C. 644(r)).
- ____ (ii) Alternate I (MAR 2020) of 52.219-13.
- ____ (20) 52.219-14, Limitations on Subcontracting (OCT 2022) (15 U.S.C. 657s).
- ____ (21) 52.219-16, Liquidated Damages—Subcontracting Plan (SEP 2021) (15 U.S.C. 637(d)(4)(F)(i)).
- ____ (22) 52.219-27, Notice of Service-Disabled Veteran-Owned Small Business Set-Aside (OCT 2022) (15 U.S.C. 657f).
- ____ (23) (i) 52.219-28, Post-Award Small Business Program Rerepresentation (MAR 2023) (15 U.S.C. 632(a)(2)).
- ____ (ii) Alternate I (MAR 2020) of 52.219-28.
- ____ (24) 52.219-29, Notice of Set-Aside for, or Sole-Source Award to, Economically Disadvantaged Women-Owned Small Business Concerns (OCT 2022) (15 U.S.C. 637(m)).
- ____ (25) 52.219-30, Notice of Set-Aside for, or Sole-Source Award to, Women-Owned Small Business Concerns Eligible Under the Women-Owned Small Business Program (OCT 2022) (15 U.S.C. 637(m)).
- ____ (26) 52.219-32, Orders Issued Directly Under Small Business Reserves (MAR 2020) (15 U.S.C. 644(r)).
- ____ (27) 52.219-33, Nonmanufacturer Rule (SEP 2021) (15 U.S.C. 657s).
- XX (28) 52.222-3, Convict Labor (JUN 2003) (E.O. 11755).
- XX (29) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (DEC 2022) (E.O. 13126).
- XX (30) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- XX ____ (31)(i) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).
 - ____ (ii) Alternate I (FEB 1999) of 52.222-26.
- XX (32)(i) 52.222-35, Equal Opportunity for Veterans (JUN 2020) (38 U.S.C. 4212).
 - ____ (ii) Alternate I (JUL 2014) of 52.222-35.
- XX (33)(i) 52.222-36, Equal Opportunity for Workers with Disabilities (JUN 2020) (29 U.S.C. 793).
 - ____ (ii) Alternate I (JUL 2014) of 52.222-36.
- ____ (34) 52.222-37, Employment Reports on Veterans (JUN 2020) (38 U.S.C. 4212).
- ____ (35) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496).
- XX (36)(i) 52.222-50, Combating Trafficking in Persons (NOV 2021) (22 U.S.C. chapter 78 and E.O. 13627).
 - ____ (ii) Alternate I (MAR 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).

____ (37) 52.222-54, Employment Eligibility Verification (MAY 2022). (E. O. 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial products or commercial services as prescribed in FAR 22.1803.)

____ (38)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Items (MAY 2008) (42 U.S.C. 6962(c)(3)(A)(ii)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

____ (ii) Alternate I (MAY 2008) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

____ (39) 52.223-11, Ozone-Depleting Substances and High Global Warming Potential Hydrofluorocarbons (JUN 2016) (E.O. 13693).

____ (40) 52.223-12, Maintenance, Service, Repair, or Disposal of Refrigeration Equipment and Air Conditioners (JUN 2016) (E.O. 13693).

____ (41)(i) 52.223-13, Acquisition of EPEAT® Registered Imaging Equipment (JUN 2014) (E.O.s 13423 and 13514).

____ (ii) Alternate I (OCT 2015) of 52.223-13.

____ (42)(i) 52.223-14, Acquisition of EPEAT® Registered Televisions (JUN 2014) (E.O.s 13423 and 13514).

____ (ii) Alternate I (JUN 2014) of 52.223-14.

____ (43) 52.223-15, Energy Efficiency in Energy-Consuming Products (MAY 2020) (42 U.S.C. 8259b).

____ (44)(i) 52.223-16, Acquisition of EPEAT®-Registered Personal Computer Products (OCT 2015) (E.O.s 13423 and 13514).

____ (ii) Alternate I (JUN 2014) of 52.223-16.

XX (45) 52.223-18, Encouraging Contractor Policies to Ban Text Messaging While Driving (JUN 2020) (E.O. 13513).

____ (46) 52.223-20, Aerosols (JUN 2016) (E.O. 13693).

____ (47) 52.223-21, Foams (JUN 2016) (E.O. 13693).

____ (48)(i) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a).

____ (ii) Alternate I (JAN 2017) of 52.224-3.

____ (49) (i) 52.225-1, Buy American--Supplies (OCT 2022) (41 U.S.C. chapter 83).

____ (ii) Alternate I (OCT 2022) of 52.225-1.

____ (50)(i) 52.225-3, Buy American-Free Trade Agreements-Israeli Trade Act (DEC 2022) (19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, 19 U.S.C. 4001 note, 19 U.S.C. chapter 29 (sections 4501-4732). Public Law 103-182, 108-77, 108-78, 108-286, 108-302, 109-53, 109-169, 109-283, 110-138, 112-41, 112-42, and 112-43.

____ (ii) Alternate I [Reserved].

- ____ (iii) Alternate II (DEC 2022) of 52.225-3.
- ____ (iv) Alternate III (JAN 2021) of 52.225-3.
- ____ (v) Alternate IV (OCT 2022) of 52.225-3.
- ____ (51) 52.225-5, Trade Agreements (DEC 2022) 19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).
- XX (52) 52.225-13, Restrictions on Certain Foreign Purchases (FEB 2021) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).
- ____ (53) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. Subtitle A, Part V, Subpart G Note).
- ____ (54) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (NOV 2007) (42 U.S.C. 5150
- ____ (55) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (NOV 2007) (42 U.S.C. 5150).
- ____ (56) 52.229-12, Tax on Certain Foreign Procurements (FEB 2021).
- ____ (57) 52.232-29, Terms for Financing of Purchases of Commercial Products and Commercial Services (NOV 2021) (41 U.S.C. 4505, 10 U.S.C. 3805).
- ____ (58) 52.232-30, Installment Payments for Commercial Products and Commercial Services (NOV 2021) (41 U.S.C. 4505, 10 U.S.C. 3805).
- XX (59) 52.232-33, Payment by Electronic Funds Transfer—System for Award Management (OCT 2018) (31 U.S.C. 3332).
- ____ (60) 52.232-34, Payment by Electronic Funds Transfer—Other than System for Award Management (JUL 2013) (31 U.S.C. 3332).
- ____ (61) 52.232-36, Payment by Third Party (MAY 2014) (31 U.S.C. 3332).
- ____ (62) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).
- ____ (63) 52.242-5, Payments to Small Business Subcontractors (JAN 2017) (15 U.S.C. 637(d)(13)).
- ____ (64)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (NOV 2021) (46 U.S.C. 55305 and 10 U.S.C. 2631).
- ____ (ii) Alternate I (APR 2003) of 52.247-64.
- ____ (iii) Alternate II (NOV 2021) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial products and commercial services: [Contracting Officer check as appropriate.]

- ____ (1) 52.222-41, Service Contract Labor Standards (AUG 2018) (41 U.S.C. chapter 67).

_____ (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

_____ (3) 52.222-43, Fair Labor Standards Act and Service Contract Labor Standards--Price Adjustment (Multiple Year and Option Contracts) (AUG 2018) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

_____ (4) 52.222-44, Fair Labor Standards Act and Service Contract Labor Standards--Price Adjustment (MAY 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).

_____ (5) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (MAY 2014) (41 U.S.C. chapter 67).

_____ (6) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Requirements (MAY 2014) (41 U.S.C. chapter 67).

_____ (7) 52.222-55, Minimum Wages for Contractor Workers Under Executive Order 14026 (JAN 2022) (E.O. 13658).

_____ (8) 52.222-62, Paid Sick Leave Under Executive Order 13706 (JAN 2022) (E.O. 13706).

_____ (9) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations (JUN 2020) (42 U.S.C. 1792).

(d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, as defined in FAR 2.101, on the date of award of this contract, and does not contain the clause at 52.215-2, Audit and Records--Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e) (1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (e)(1) in a subcontract for commercial products or commercial services. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (NOV 2021) (41 U.S.C. 3509).

(ii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017) (section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015 (Pub. L. 113-235) and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions)).

- (iii) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (NOV 2021) (Section 1634 of Pub. L. 115-91).
- (iv) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (NOV 2021) (Section 889(a)(1)(A) of Pub. L. 115-232).
- (v) 52.204-27, Prohibition on a ByteDance Covered Application (JUN 2023) (Section 102 of Division R of Pub. L. 117-328).
- (vi) 52.219-8, Utilization of Small Business Concerns (OCT 2022) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds the applicable threshold specified in FAR 19.702(a) on the date of subcontract award, the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (vii) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- (viii) 52.222-26, Equal Opportunity (SEP 2016) (E.O. 11246).
- (ix) 52.222-35, Equal Opportunity for Veterans (JUN 2020) (38 U.S.C. 4212).
- (x) 52.222-36, Equal Opportunity for Workers with Disabilities (JUN 2020) (29 U.S.C. 793).
- (xi) 52.222-37, Employment Reports on Veterans (JUN 2020) (38 U.S.C. 4212).
- (xii) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496). Flow down required in accordance with paragraph (f) of FAR clause 52.222-40.
- (xiii) 52.222-41, Service Contract Labor Standards (AUG 2018), (41 U.S.C. chapter 67).
- (xiv) _____ (A) 52.222-50, Combating Trafficking in Persons (NOV 2021) (22 U.S.C. chapter 78 and E.O. 13627).
_____(B) Alternate I (MAR 2, 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xv) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Requirements (MAY 2014) (41 U.S.C. chapter 67.)
- (xvi) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Requirements (MAY 2014) (41 U.S.C. chapter 67)
- (xvii) 52.222-54, Employment Eligibility Verification (MAY 2022) (E. O. 12989).
- (xviii) 52.222-55, Minimum Wages for Contractor Workers Under Executive Order 14026 (JAN 2022) (E.O. 13658).
- (xix) 52.222-62, Paid Sick Leave Under Executive Order 13706 (JAN 2022) (E.O. 13706).
- (xx) (A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a).
(B) Alternate I (JAN 2017) of 52.224-3.
- (xxi) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. Subtitle A, Part V, Subpart G Note).

(xxii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations. (JUN 2020) (42 U.S.C. 1792). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.

(xxiii) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (MAR 2023) (31 U.S.C. 3903 and 10 U.S.C. 3801). Flow down required in accordance with paragraph (c) of 52.232-40.

(xxiv) 52.247-64, Preference for Privately-Owned U.S. Flag Commercial Vessels (NOV 2021) (46 U.S.C. 55305 and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the Contractor may include in its subcontracts for commercial products and commercial services a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

52.216-22 INDEFINITE QUANTITY. (OCT 1995)

(a) This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government, when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the "maximum". The Government shall order at least the quantity of supplies or services designated in the Schedule as the "minimum".

(c) Except for any limitations on quantities in the Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after one year from last task order issuance.

(End of clause)

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within 10 days of contract expiration (insert the period of time within which the Contracting Officer may exercise the option); provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 15 days (60 days unless a different number of days is inserted) before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 10

years.
(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

www.acquisition.gov/far
(End of clause)

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (NOV 2020)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(End of clause)

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (JAN 2023)

(a) Definitions. As used in this clause—

“Department of Defense Activity Address Code (DoDAAC)” is a six position code that uniquely identifies a unit, activity, or organization.

“Document type” means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

“Local processing office (LPO)” is the office responsible for payment certification when payment certification is done external to the entitlement system.

“Payment request” and “receiving report” are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(b) Electronic invoicing. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation Supplement (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall—

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.sam.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the “Web Based Training” link on the WAWF home page at <https://wawf.eb.mil/>.

(e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:

(1) Document type. The Contractor shall submit payment requests using the following document type(s):

(i) For cost-type line items, including labor-hour or time-and-materials, submit a cost voucher.

(ii) For fixed price line items—

(A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.

2-in-1 unless otherwise specified on each delivery order

(Contracting Officer: Insert applicable invoice and receiving report document type(s) for fixed price line items that require shipment of a deliverable.)

(B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.

(iii) For customary progress payments based on costs incurred, submit a progress payment request.

(iv) For performance based payments, submit a performance based payment request.

(v) For commercial financing, submit a commercial financing request.

(2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

[Note: The Contractor may use a WAWF “combo” document type to create some combinations of invoice and receiving report in one step.]

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	[* *]
Issue By DoDAAC	[* *]
Admin DoDAAC**	[* *]
Inspect By DoDAAC	[* *]
Ship To Code	[* *]

Ship From Code	[* *]
Mark For Code	[* *]
Service Approver (DoDAAC)	[* *]
Service Acceptor (DoDAAC)	[* *]
Accept at Other DoDAAC	NA
LPO DoDAAC	NA
DCAA Auditor DoDAAC	NA
Other DoDAAC(s)	NA

(4) Payment request. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.

(5) Receiving report. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.

(g) WAWF point of contact.

(1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

This information to be specified in each delivery order issued

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	Emergent Biothrax Price Sheet	1	04-OCT-2023
Attachment 2	CDRL A002 Risk Mitigation Plan	1	01-JAN-2024
Attachment 3	CDRL A001 Quarterly Status Report	1	01-JAN-2024

PERFORMANCE WORK STATEMENT

Performance Work Statement

Procurement of BioThrax® (Anthrax Vaccine Adsorbed) (BioThrax®) as Pre-Exposure Prophylaxis (PrEP) for Anthrax Disease

1. Background and Purpose

The Joint Program Manager for Chemical, Biological, Radiological and Nuclear Medical (JPM CBRN Medical) is seeking an indefinite delivery indefinite quantity (ID/IQ) contract with Emergent Biodefense Operations Lansing LLC (Emergent). When a delivery order is placed, it shall consist of the minimum purchase of [* *] of BioThrax®. The contract is structured with the option to purchase BioThrax® doses, up to the maximum dollar value as set forth herein, over a ten (10) year period consisting of a five (5) year base period and a five (5) year option period to replenish expiring doses within the Administration for Strategic Preparedness (ASPR) Strategic National Stockpile (SNS). The Department of Defense (DoD) will purchase a minimum of [* *] doses when placing a delivery order during the five (5) year base period of performance with up to four (4) scheduled deliveries per year. A five (5) year option period will follow upon conclusion of base period to be exercised prior to the expiration of the base period.

The Services (DoD) require an anticipated [* *] doses of Emergent's BioThrax® vaccine with Pre-exposure Prophylaxis (PrEP) [* *] annually for ten (10) years beginning in Fiscal Year 2024 (FY24). This is a new procurement to provide the Services with a PrEP anthrax vaccine required by DOD Memorandum Clarifying Guidance for Smallpox and Anthrax Vaccine immunization Programs, dated November 12, 2015. Additionally, the Secretary's Declaration for Anthrax vaccine as a covered countermeasure issued pursuant to the Public Readiness and Emergency Preparedness (PREP Act), section 319F-3 of the Public Health Service Act (42 U.S.C.247d-6d), applies to this contract, subject to the terms and conditions of such declaration and any amendments thereto.

ASPR SNS manages the current stockpile. It will no longer procure BioThrax® for PrEP. Instead, SNS will be procuring CYFENDUS® (AV7909) [* *] JPM CBRN Medical is partnering with the Defense Health Agency (DHA) [* *].

1.1 Period of Performance

This Contract has two (2) periods of performance.

- A base period of five (5) years beginning January 01, 2024, through September 30, 2028.
- An option period of five (5) years beginning October 01, 2028, through September 30, 2033

2. Scope

The DoD will purchase a minimum of [* *] doses when placing a delivery order. Each delivery order shall consist of up to [* *] scheduled deliveries per year. The total period of performance is [* *].

2.1 Manufacturing of BioThrax® and cGMP Compliance:

- a) The Contractor shall manufacture BioThrax® in accordance with current Good Manufacturing Practices (cGMP) guidelines.
- b) The Contractor shall provide a Project Manager to lead the effort and provide primary and secondary points of contact who shall be available 24 hours per day, seven (7) days per week to be notified in case of a public health emergency.
- c) All BioThrax® delivered under this contract must be labeled with an expiration date consistent with its current product license at the time of manufacture.

- d) Products delivered under this contract will have a [* *] from the date of manufacture and must be delivered in accordance with cGMP guidelines. Upon request, Contractor will provide batch records to the Government.
- e) The Contractor shall notify the Government of Biologics Process Deviation Reports (BPDR) related to the safety and/or efficacy of BioThrax® within two (2) days after reporting to FDA. These notifications shall also be included in Quarterly Reports.
- f) The Government will have the option to conduct inspections of the Contractor's [* *] facility. Such inspections will be performed by the Contracting Officer Representative (COR) or the COR's designee(s).
- g) The Government will establish a FedEx account in concert with U.S. Army Medical Materiel Agency Distribution Operations Center (USAMMA DOC).
 - 1. Account information will be provided to the Contractor. Shipment will be handled in accordance with the Deliveries Section below.
 - 2. The Government shall rely on Contractor's existing quality assurance systems as a substitute for Government inspection before issuing notification of acceptance unless customary industry practices for the items being acquired include in-process inspection.
 - 3. Any in-process inspection by the Government shall be conducted in a manner consistent with industry practice.

2.2 ORDERING

All Delivery Orders shall be bi-lateral, requiring both parties' consent to the terms outlined in each Order.

- a) The Government shall review annual production requirements and associated delivery forecasts with the Contractor during a scheduled conference in the first quarter of each fiscal year, these forecasts shall be communicated via a non-binding letter of intent issued by the Government within ten (10) business days of such agreement. Any updates will be communicated as soon as they are known.
- b) The Government shall provide the Contractor the delivery location and schedule prior to acceptance of any Order; the schedule is subject to manufacturing timelines and will be mutually agreed upon prior to issuance.
- c) The Government shall negotiate delivery schedules for unforecasted requirements prior to issuance of an Order.
- d) Within ten business (10) days of an Order being placed by the Government, the Contractor shall either accept or reject such Order. In the event the Contractor rejects an Order, the Contractor shall provide reason for such rejection with specificity, and the Government and Contractor shall work together in good faith to revise the Order to alleviate the Contractor's reason for such rejection.

2.3 DELIVERIES

- a) The quantity of BioThrax® doses will be specified when an Order is placed. BioThrax® must be delivered on any business day, except federal holidays, within the scheduled month in accordance with the targeted delivery schedule.

b) The Contractor shall notify the Government promptly upon becoming aware of any deviations from the targeted delivery schedule. All changes to the targeted delivery schedule must be approved by the Contracting Officer (KO). All BioThrax® vaccine must be shipped and delivered IAW cGMP guidelines.

c) Temperature Control and Monitoring (FOB Origin, Contractor's facility):

1. Emergent shall be responsible for maintaining product temperature control until the product leaves their facility. Emergent will place Government approved temperature monitoring device(s) on all pallets prior to loading. SENSITECH TempTale 4 Bio (TT4 Bio) or similarly agreed upon template shall be inserted in each pallet prior to shipping to ensure product temperature is maintained throughout the shipping process. Receiving Contractor will record and download data via SENSITECH TempTale Manager Desktop Software or applicable template software and provide report to COR within two business days of receipt.
2. Upon transfer of the product to the Government, the responsibility for temperature control shall transfer to the Government. As well as the responsibility for logging ambient exposure time.
3. Emergent shall be responsible for placing the product onto the truck(s) for shipment.

d) Acceptance Process

1. Contractor shall deliver to the Government, via e-mail:
 - All required documentation outlined for delivery of product
 - Notification of the date and time that the product was shipped.

e) Acceptance Timeframe:

1. The Government will have ten (10) full business days, after receipt of all documentation required to establish that the requirements have been satisfied and provide Contractor notice that the Government accepts the lot(s).
2. For purposes of this acceptance timeframe, business days are defined as 9:00AM to 5:00PM Eastern Time, Monday through Friday, excluding U.S. Government Holidays.
3. For the avoidance of doubt, The Government will provide the Contractor with a written acceptance or refusal of BioThrax® lot(s) no later than 5:00PM on the tenth (10th) business day after receipt of the documentation. If no notice is received the lots will be deemed accepted.

f) Product Delivery

1. The delivery of BioThrax® product shall be F.O.B Origin at the Contractor. The Government will provide the Contractor with delivery locations on specified orders.

g) Delivery Documentation

1. For product delivery, per the timeline specified in the Order, the COR shall notify the Contractor of the scheduled delivery date.

2. At least ten (10) business days prior to each product pick up by the Government, the Contractor shall provide to the Contracting Officer and COR:
 - o The delivery date that the product will be ready for loading onto the truck(s) scheduled by Contractor.
 - o Physical address of the product pick-up location (facility name, address, point of contact name and telephone number).
 - o Number of 40"x48" pallets, number of vials, and doses within the shipment.
3. At least 48 hours before each scheduled pick up the Contractor shall provide the following to the Contracting Officer and COR:
 - o Packing Slip
 - o Confirm the number of pallets, vials and doses to be loaded
 - o Diagram of the product shipment pallet (how many vials per box, per pallet)
 - o Certificate(s) of Analysis

3. Audits / Site Visits

- a) Site Visits/Audits: The Government shall perform annual site visits/security audits as deemed necessary by the Government throughout the contract's period of performance.
- b) Quality: The Government reserves the right to visit the Contractor's site for the purpose of assessing quality on an annual basis or as deemed necessary by the Government throughout the period of performance of the contract.
- c) Notice: The Government will provide a two (2) week advance notice prior, to the Contractor, of all site visits and audits. The notice will include a statement concerning the intended scope of the audit and a list of the required documents or access to personnel.
- d) All audits will be conducted between normal business hours i.e., 8 a.m. through 4 p.m., Monday through Friday.

4. Meetings and Reporting Requirements

- a) The Contractor shall submit to the KO and to the COR quarterly progress reports covering the work accomplished during each reporting period. These reports are subject to technical inspection and requests for clarification by the COR. These shall be brief and factual and prepared in accordance with the following format:
 - (1) Quarterly Progress Reports: Within fifteen (15) business days following a completed quarter of work, the Contractor shall submit a quarterly progress report to the COR and the KO.
 - (2) The Contractor shall submit one (1) copy of the quarterly progress report electronically via e-mail. Any attachments to the e-mail report shall be submitted in Microsoft Word, PDF or a compatible version.

b) Reports shall include the following specific information:

- (1) The contract number and title, the period of performance being reported, the contractor's name and address, the author(s), and the date of submission.
- (2) Section I - An introduction covering the purpose and scope of the contract effort.
- (3) Section II - The report shall detail, document, and summarize the results of work done in performance of this contract's requirements during the period covered and include a summary of work planned for the next reporting period. Production capacity assessment problems and recommendations to include:
 - i. Inventory report of products manufactured and delivered to the USG under this contract.
 - ii. Status of raw materials impacting delivery of vaccine doses.
 - iii. Status of critical supplies, such as vials and stoppers, impacting delivery of vaccine doses.
 - iv. Biologics Process Deviation Reports related to the safety and/or efficacy of BioThrax® submitted to FDA.
 - v. Corrective and Preventative Actions (CAPA) related to BioThrax® BPDR.
 - vi. Overall performance assessment, problems encountered and recommended solutions.
- (4) Section III – An explanation of any difference between planned progress and actual progress, why the differences have occurred, and, if behind planned progress, what corrective steps are planned. The project plan and delivery schedule will be updated in each quarterly report and compared to the baseline plan and delivery schedule.

c) Final Report: A final report is due 30 days prior to the end of the contract's final period of performance.

d) The delivery of data and physical deliverables shall be coordinated with the COR. A copy of all data deliverables shall be sent to: [* *]

5. Risk

- a) Risk Mitigation Plan: The Contractor shall submit a risk mitigation plan within 90 days after contract award and shall provide an updated plan after each year is complete. The plan should identify manufacturing, quality, regulatory, and shipment risks and countermeasures to mitigate these risks.
- b) The Contractor shall deliver, within the time frames specified, original reports to the KO and a copy to the COR. E-mail submissions of all reports are preferred.

6. Notification of Delays to the Government

In the event the Contractor encounters difficulty in either meeting performance requirements, anticipates difficulty in complying with contract delivery schedule or date, or has knowledge that any actual or

potential situation is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately notify the KO, and the COR.

7. Security

The security classification level for this effort is unclassified.

8. Safety

The Contractor shall adhere to all local, state, and federal rules and regulations required in maintaining a safe and non-hazardous occupational environment throughout the duration of this contract's period of performance.

9. Contracting Officer's Authority

The KO is the only person authorized to make or approve any changes in any of the requirements of this contract and notwithstanding any provisions contained elsewhere in this contract, the said authority remains solely in the KO. In the event the Contractor makes any changes at the direction of any person other than the KO, the changes will be considered to have been made without authority and no adjustment will be made in the contract terms and conditions, including price.

Contracting Officer:

Brian Mazen
Lead Contract Specialist
8456 Brigade Street, Bldg. 4215
APG, MD 21010
410.436.1331
brian.e.mazen.civ@army.mil

Contracting Officer's Representative:

Kevin Watts
Assistant Product Manager
CBRN Medical CDP/BDP
110 Thomas Johnson Drive
Frederick, MD 21702
240-529-2081
Kevin.W.Watts2.civ@army.mil

Order Quantity (by Dose)	Yr1 Price	Yr2 Price	Yr3 Price	Yr 4 Price	Yr5 Price
Up to 1,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
1,001-10,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
10,001-100,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
100,001-250,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
250,001-400,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
400,001-600,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
Over 600,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
600,001 - 900,000	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
900,000+	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]

Yr6 Price	Yr7 Price	Yr8 Price	Yr9 Price	Yr10 Price
\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]
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\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]	\$ [* *]

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved

OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0003			B. EXHIBIT A002		C. CATEGORY: TDP _____ TM _____ OTHER _____				
D. SYSTEM/ITEM Procurement of Anthrax Vaccine BioThrax		E. CONTRACT/PR NO. W911SR-24-D-0001		F. CONTRACTOR Emergent BioDefense, Inc					
1. DATA ITEM NO. A002		2. TITLE OF DATA ITEM Risk Mitigation Plan		3. SUBTITLE Risk Mitigation Plan					
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81808		5. CONTRACT REFERENCE Performance Work Statement (PWS)			6. REQUIRING OFFICE JPM CBRN Medical				
7. DD 250 REQ NO		9. DIST STATEMENT REQUIRED	10. FREQUENCY See BLK 16	12. DATE OF FIRST SUBMISSION See BLK 16			14. DISTRIBUTION		
8. APP CODE NO		C	11. AS OF DATE Contract Award	13. DATE OF SUBSEQUENT SUBMISSION N/A			a. ADDRESSEE	b. COPIES	
16. REMARKS									
<p>Blocks #10, #12 and #13: The Risk Mitigation Plan is due no later than Ninety (90) calendar days after contract award (ACA) with subsequent submissions due annually thereafter for the life of the contract.</p> <p>Format: Contractor will utilize Microsoft Office products to produce reports in an easy to read electronic format with sequentially numbered pages. The risk mitigation plan shall identify manufacturing, quality, regulatory, and shipment risks and countermeasures to mitigate these risks.</p> <p>Content: The Contractor shall present this Briefing Material in accordance with the Data Item Description (DID) Document DI-MGMT-81808 which can be obtained from: [* *].</p>									
<p>The distribution of the information contained in or produced as a result of this Contract Data Requirements List (CDRL) is essential to the design, development, production, operation, application, or maintenance of an article or service that makes or could make a significant contribution to the military potential of any country, including the United States. Therefore, distribution is authorized to U.S. Government agencies and their Contractors.</p>									
G. PREPARED BY KEVIN W. WATTS		H. DATE		I. APPROVED BY			J. DATE 5 JAN 24		
15. TOTAL → 3 3 0									

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

*Form Approved
OMB No. 0704-0188*

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0002			B. EXHIBIT A001		
D. SYSTEM/ITEM Procurement of Anthrax Vaccine BioThrax			E. CONTRACT/PR NO. W911SR-24-D-0001		
1. DATA ITEM NO. A001			F. CONTRACTOR Emergent BioDefense, Inc		
2. TITLE OF DATA ITEM Contractor's Progress, Status and Management Report			3. SUBTITLE Kick-Off, Meetings and Meeting Minutes Quarterly Status Report		
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81928			5. CONTRACT REFERENCE Performance Work Statement (PWS)		
7. DD 250 REQ NO			9. DIST STATEMENT REQUIRED C		
8. APP CODE NO			10. FREQUENCY See BLK 16		
16. REMARKS			12. DATE OF FIRST SUBMISSION See BLK 16		
Blocks #10: Contractor shall conduct a One-Time "Kick-Off" meeting to discuss key requirements of the ID/IQ under the Performance Work Statement (PWS). Then schedule quarterly meetings to discuss key requirements and any issues affecting performance of the contract. Contractor will schedule and capture meeting minutes for all meetings with the Government.			13. DATE OF SUBSEQUENT SUBMISSION N/A		
Blocks #12 and #13: The first Quarterly Report is due no later than Ninety (90) calendar days after contract award (ACA) with subsequent submissions due quarterly thereafter for the life of the contract.			14. DISTRIBUTION		
Format: Contractor will utilize Microsoft Office products to produce reports in an easy to read electronic format with sequentially numbered pages. The report shall include inventory of product manufactured and delivered to the USG under this contract, status of raw materials impacting delivery of vaccine doses, status of critical supplies such as vials and stoppers impacting delivery of vaccine doses, reports related to the safety and/or efficacy of BioThrax® submitted to FDA, Corrective and Preventative Actions (CAPA), problems encountered and recommended solutions, key events and key events for the next quarter. Also include, any problems/issues requiring Government resolution.			a. ADDRESSEE		
Content: The Contractor shall present this Briefing Material in accordance with the Data Item Description (DID) Document DI-MGMT-81928 which can be obtained from: [* *].			b. COPIES		
The distribution of the information contained in or produced as a result of this Contract Data Requirements List (CDRL) is essential to the design, development, production, operation, application, or maintenance of an article or service that makes or could make a significant contribution to the military potential of any country, including the United States. Therefore, distribution is authorized to U.S. Government agencies and their Contractors.			Mr. Kevin Watts		
			1 COR		
			kevin.w.watts2.		
			civ@army.mil		
			Mr. Brian Mazen		
			1 Contracting Officer		
			brian.e.mazen		
			civ@army.mil		
			Ms. Mea Johnson		
			1 Contract Admin		
			mea.n.johnson		
			civ@army.mil		
			16. TOTAL →		
			3 3 0		
G. PREPARED BY KEVIN W. WATTS			H. DATE		
			I. APPROVED BY WATTS,KEVIN,WADE .1103544153		
			J. DATE 5 JAN 24		
			Digitally signed by WATTS,KEVIN,WADE.1103544153 Date: 2024-01-05 09:48:28 -05'00"		

Certain identified information has been excluded from this exhibit because it is (i) not material and (ii) is the type of information that the registrant treats as private or confidential. Double asterisks denote omission.

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30				1. REQUISITION NUMBER 0012066737	PAGE 1 OF 14	
2. CONTRACT NO. W911SR24D0001	3. AWARD/IEFFECTIVE DATE 22-Jan-2024	4. ORDER NUMBER W911SR24F0016	5. SOLICITATION NUMBER	6. SOLICITATION ISSUE DATE		
7. FOR SOLICITATION INFORMATION CALL:	a. NAME	b. TELEPHONE NUMBER (No Collect Calls)			8. OFFER DUE DATE/LOCAL TIME	
9. ISSUED BY USA CONTRACTING CMD-APG. - W911SR EDGEWOOD CONTRACTING DIVISION 8456 BRIGADE STREET BLDG E4215 ABERDEEN PROVING GROUND MD 21010-5401 TEL: FAX:	CODE W911SR	10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: _____ % FOR: <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> WOMEN-OWNED SMALL BUSINESS (WOSB) <input type="checkbox"/> HUBZONE SMALL <input type="checkbox"/> ELIGIBLE UNDER THE WOMEN-OWNED <input type="checkbox"/> BUSINESS <input type="checkbox"/> SMALL BUSINESS PROGRAM <input type="checkbox"/> SERVICE-DISABLED <input type="checkbox"/> NAICS: <input type="checkbox"/> VETERAN-OWNED <input type="checkbox"/> 325411 <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> 8(A) SIZE STANDARD: 1,000				
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input checked="" type="checkbox"/> SEE SCHEDULE	12. DISCOUNT TERMS	<input type="checkbox"/> 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)	13b. RATING			
15. DELIVER TO	CODE	16. ADMINISTERED BY	CODE	14. METHOD OF SOLICITATION <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP		
SEE SCHEDULE			SEE ITEM 9			
17a. CONTRACTOR/ OFFEROR CODE 1HOB6	FACILITY CODE	18a. PAYMENT WILL BE MADE BY CODE HQ0490 DFAS-INDY VP GFEBS 8899 E 56TH STREET INDIANAPOLIS IN 46249-3800				
EMERGENT BIODEFENSE OPERATIONS LANSING L EMERGENT BIODEFENSE 3500 N MARTIN LUTHER KING JR BLVD LANSING MI 48906-2933 TELEPHONE NO.						
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM				
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES		21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
SEE SCHEDULE						
25. ACCOUNTING AND APPROPRIATION DATA See Schedule				26. TOTAL AWARD AMOUNT (For Govt. Use Only) \$6,499,971.50		
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4, FAR 52.212-3, 52.212-5 ARE ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED <input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4, FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED						
<input checked="" type="checkbox"/> 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 1 COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED.			29. AWARD OF CONTRACT: REF. <input type="checkbox"/> OFFER DATED _____ . YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:			
30a. SIGNATURE OF OFFEROR/CONTRACTOR [**] Reason: I approve this document Date: Jan 19, 2024 07:22 EST			31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			
30b. NAME AND TITLE OF SIGNER [**] SVP, Products Business		30c. DATE SIGNED Jan 19, 2024	31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) TEL: EMAIL:		31c. DATE SIGNED	

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION IS NOT USABLE

STANDARD FORM 1449 (REV. 2/2012)
Prescribed by GSA - FAR (48 CFR) 53.212

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS (CONTINUED)							PAGE 2 OF 14	
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES			21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT	
	SEE SCHEDULE							
<p>32a. QUANTITY IN COLUMN 21 HAS BEEN</p> <p><input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED:</p>								
32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE				32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
				32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
33. SHIP NUMBER	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR		36. PAYMENT		37. CHECK NUMBER		
<input type="checkbox"/> PARTIAL	<input type="checkbox"/> FINAL			<input type="checkbox"/> COMPLETE	<input type="checkbox"/> PARTIAL	<input type="checkbox"/> FINAL		
38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY						
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT		42a. RECEIVED BY (Print)						
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	42b. RECEIVED AT (Location)					
			42c. DATE REC'D (YY/MM/DD)					
			42d. TOTAL CONTAINERS					

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION IS NOT USABLE

STANDARD FORM 1449 (REV. 2/2012) BACK
Prescribed by GSA – FAR (48 CFR) 53.212

Section SF 30 - BLOCK 14 CONTINUATION PAGE

EXECUTIVE SUMMARY

1. Delivery Order (DO) W911SR-24-F-0016 is awarded to Emergent Biodefense Operations Lansing LLC (Emergent) for the procurement of BioThrax® doses.
2. This DO will consist of [* *] doses in FY24 and an option for an additional [* *] doses in FY25.
3. The Government and Emergent will review and update the FY25 delivery schedule prior to execution of the FY25 option.
4. Early delivery is allowable if at no additional cost to the Government. Emergent shall provide notice to the Government should early deliveries be anticipated.
5. In accordance with FAR 52.216-18 "Ordering," all terms, conditions, and contract clauses of the BioThrax® base contract W911SR-24-D-0001 apply to this DO, unless otherwise noted.

Section SF 1449 - CONTINUATION SHEET

STATEMENT OF WORK

Statement of Work

Procurement of BioThrax® (Anthrax Vaccine Adsorbed) (BioThrax®) as Pre-Exposure Prophylaxis (PrEP) for Anthrax Disease

1. Background and Purpose

Pursuant to contract W911SR-24-D-0001 the Joint Program Manager for Chemical, Biological, Radiological and Nuclear Medical (JPM CBRN Medical) is submitting this delivery order (DO) contract to Emergent Biodefense Operations Lansing LLC (Emergent) for the minimum purchase of [* *] doses of BioThrax® in Fiscal Year (FY)24 and FY25.

1.1 Period of Performance (PoP)

This delivery order PoP will cover a 1-year base for FY24 and 1 year option for FY25.

- FY24 - [* *] doses of BioThrax will be delivered to the Government with up to 4 deliveries within the fiscal year.
- FY25 Option - [* *] doses of BioThrax will be delivered to the Government with up to 4 deliveries within the fiscal year.

2. Scope

The DoD will purchase [* *] doses in FY24 and have an option to procure [* *] doses in FY 25 with up to [* *] scheduled deliveries per year.

2.1 Manufacturing of BioThrax® and cGMP Compliance:

- a) The Contractor shall manufacture BioThrax® in accordance with current Good Manufacturing Practices (cGMP) guidelines.
- b) The Contractor shall provide a Project Manager to lead the effort and provide primary and secondary points of contact who shall be available 24 hours per day, seven (7) days per week to be notified in case of a public health emergency.
- c) All BioThrax® delivered under this contract must be labeled with an expiration date consistent with its current product license at the time of manufacture.
- d) Products delivered under this contract will have a [* *] from the date of manufacture and must be delivered in accordance with cGMP guidelines. Upon request, Contractor will provide batch records to the Government.
- e) The Contractor shall notify the Government of Biologics Process Deviation Reports (BPDR) related to the safety and/or efficacy of BioThrax® within two (2) days after reporting to FDA. These notifications shall also be included in Quarterly Reports.

- f) The Government will have the option to conduct inspections of the Contractor's Lansing facility. Such inspections will be performed by the Contracting Officer Representative (COR) or the COR's designee(s).
- g) The Government will establish a FedEx account in concert with U.S. Army Medical Materiel Agency Distribution Operations Center (USAMMA DOC).
 - 1. Account information will be provided to the Contractor. Shipment will be handled in accordance with the Deliveries Section below.
 - 2. The Government shall rely on Contractor's existing quality assurance systems as a substitute for Government inspection before issuing notification of acceptance unless customary industry practices for the items being acquired include in-process inspection.
 - 3. Any in-process inspection by the Government shall be conducted in a manner consistent with industry practice.

2.2 ORDERING

All Delivery Orders shall be bi-lateral, requiring both parties' consent to the terms outlined in each Order.

- a) The Government shall review annual production requirements and associated delivery forecasts with the Contractor during a scheduled conference in the first quarter of each fiscal year. Any updates will be communicated as soon as they are known.
- b) The Government shall provide the Contractor the delivery location and schedule prior to acceptance of any Order.
- c) The Government shall negotiate delivery schedules for unforecasted requirements prior to issuance of an Order.
- d) Within ten business (10) days of an Order being placed by the Government, the Contractor shall either accept or reject such Order. In the event the Contractor rejects an Order, the Contractor shall provide reason for such rejection with specificity, and the Government and Contractor shall work together in good faith to revise the Order to alleviate the Contractor's reason for such rejection.

2.3 DELIVERIES

- a) The quantity of BioThrax® doses are specified in the delivery order. BioThrax® must be delivered on any business day, except federal holidays, within the scheduled month in accordance with the targeted delivery schedule.
- b) The Contractor shall notify the Government promptly upon becoming aware of any deviations from the targeted delivery schedule. All changes to the targeted delivery schedule must be approved by the Contracting Officer (KO). All BioThrax® vaccine must be shipped and delivered IAW cGMP guidelines.
- c) Temperature Control and Monitoring (FOB Origin, Contractor's facility):
 - 1. Emergent shall be responsible for maintaining product temperature control until the product leaves their facility. Emergent will place Government approved temperature monitoring device(s) on all pallets prior to loading. SENSITECH TempTale 4 Bio (TT4 Bio) shall be inserted in each pallet prior to shipping to ensure product temperature is

maintained throughout the shipping process. Receiving Contractor will record and download data via SENSITECH TempTale Manager Desktop Software and provide report to COR within two business days of receipt.

2. Upon transfer of the product to the Government, the responsibility for temperature control shall transfer to the Government. As well as the responsibility for logging ambient exposure time.
3. Emergent shall be responsible for all logistical preparation to ship product to Government designated location. Packing, loading, TempTale placement, scheduling of trucks all fall under logistical preparations for shipment.

d) Acceptance Process

1. Contractor shall deliver to the Government, via e-mail:
 - All required documentation outlined for delivery of product
 - Notification of the date and time that the product was shipped

e) Acceptance Timeframe:

1. The Government will have ten (10) full business days, after receipt of all documentation required to establish that the requirements have been satisfied and provide Contractor notice that the Government accepts the lot(s).
2. For purposes of this acceptance timeframe, business days are defined as 9:00AM to 5:00PM Eastern Time, Monday through Friday, excluding U.S. Government Holidays.
3. For the avoidance of doubt, The Government will provide the Contractor with a written acceptance or refusal of BioThrax® lot(s) no later than 5:00PM on the tenth (10th) business day after receipt of the documentation. If no notice is received the lots will be deemed accepted.

f) Product Delivery

1. The delivery of BioThrax® product shall be F.O.B Origin at the Contractor. The Government will provide the Contractor with delivery locations on specified orders.

g) Delivery Documentation

1. For product delivery, per the timeline specified in the Order, the COR shall notify the Contractor of the scheduled delivery date.
2. At least ten (10) business days prior to each product shipment, the Contractor shall provide to the Contracting Officer and COR:
 - o The delivery date that the product will be ready for loading onto the truck(s) scheduled by Contractor.
 - o Physical address of the product pick-up location (facility name, address, point of contact name and telephone number).
 - o Number of 40"x48" pallets, number of vials, and doses within the shipment.

3. At least 48 hours before each scheduled shipment, the Contractor shall provide the following to the Contracting Officer and COR:

- o Packing Slip
- o Confirm the number of pallets, vials and doses to be loaded
- o Diagram of the product shipment pallet (how many vials per box, per pallet)
- o Certificate(s) of Analysis

3. Audits / Site Visits

- a) Site Visits/Audits: The Government shall perform annual site visits/security audits as deemed necessary by the Government throughout the contract's period of performance.
- b) Quality: The Government reserves the right to visit the Contractor's site for the purpose of assessing quality on an annual basis or as deemed necessary by the Government throughout the period of performance of the contract.
- c) Notice: The Government will provide a two (2) week advance notice prior, to the Contractor, of all site visits and audits. The notice will include a statement concerning the intended scope of the audit and a list of the required documents or access to personnel.
- d) All audits will be conducted between normal business hours i.e., 8 a.m. through 4 p.m., Monday through Friday.

4. Meetings and Reporting Requirements

- a) Contractor will comply with reporting requirements contained in base contract W911SR-24-D-0001.
- b) Report format will comply with requirements specified within base contract W911SR-24-D-0001.

5. Notification of Delays to the Government

In the event the Contractor encounters difficulty in either meeting performance requirements, anticipates difficulty in complying with contract delivery schedule or date, or has knowledge that any actual or potential situation is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately notify the KO, and the COR.

6. Security

The security classification level for this effort is unclassified.

7. Safety

The Contractor shall adhere to all local, state, and federal rules and regulations required in maintaining a safe and non-hazardous occupational environment throughout the duration of this contract's period of performance.

8. Contracting Officer's Authority

The KO is the only person authorized to make or approve any changes in any of the requirements of this contract and notwithstanding any provisions contained elsewhere in this contract, the said authority remains solely in the KO. In the event the Contractor makes any changes at the direction of any person other than the KO, the changes will be considered to have been made without authority and no adjustment will be made in the contract terms and conditions, including price.

Contracting Officer:

Brian Mazen
Lead Contract Specialist
8456 Brigade Street, Bldg. 4215
APG, MD 21010
410.436.1331
brian.e.mazen.civ@army.mil

Contracting Officer's Representative:

Kevin Watts
Assistant Product Manager
CBRN Medical CDP/BDP
110 Thomas Johnson Drive
Frederick, MD 21702
240-529-2081
Kevin.W.Watts2.civ@army.mil

ITEM NO	SUPPLIES/SERVICES	QUANTITY [* *]	UNIT Each	UNIT PRICE \$[* *]	AMOUNT \$[* *]
0001	BioThrax® (Anthrax Vaccine Adsorbed) FFP				
The contractor shall provide the quantity of doses of BioThrax® (Anthrax Vaccine Adsorbed) as specified in each Delivery Order.					
FOB: Origin (Shipping Point)					
PURCHASE REQUEST NUMBER: 0012066737					
PSC CD: 6505					
<hr/>					
NET AMT \$[* *]					
ACRN AA CIN: GFEBS001206673700001					
<hr/>					

ITEM NO 0002 OPTION	SUPPLIES/SERVICES BioThrax® (Anthrax Vaccine Adsorbed) FFP	QUANTITY [* *]	UNIT Each	UNIT PRICE \$[* *]	AMOUNT \$[* *]
The contractor shall provide the quantity of doses of BioThrax® (Anthrax Vaccine Adsorbed) as specified in each Delivery Order. FOB: Origin (Shipping Point) PSC CD: 6505					

NET AMT \$[* *]

ITEM NO 0003 OPTION	SUPPLIES/SERVICES BioThrax® (Anthrax Vaccine Adsorbed) FFP	QUANTITY [* *]	UNIT Each	UNIT PRICE \$[* *]	AMOUNT \$[* *]
The contractor shall provide the quantity of doses of BioThrax® (Anthrax Vaccine Adsorbed) as specified in each Delivery Order. FOB: Origin (Shipping Point) PSC CD: 6505					

NET AMT \$[* *]

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
		1	Each		NSP
0004	CDRL A001 Quartely Reports FFP The contractor shall provide data report as specified in the Contract Data requirement list A001 and in the Performance Work Statement , Section 4 Meeting and Reporting Requirments FOB: Destination PSC CD: 6505				

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
		1	Each		NSP
0005	CDRL A002 Risk Mitigation Plan FFP The contractor shall provide data report as specified in the Contract Data requirement list A002 and in the Performance Work Statement , Section 5 Risk FOB: Destination PSC CD: 6505				

NET AMT

ITEM NO 1001 OPTION	SUPPLIES/SERVICES BioThrax® (Anthrax Vaccine Adsorbed) FFP	QUANTITY [* *] The contractor shall provide the quantity of doses of BioThrax® (Anthrax Vaccine Adsorbed) as specified in each Delivery Order. FOB: Origin (Shipping Point) PSC CD: 6505	UNIT Each	UNIT PRICE \$[* *]	AMOUNT \$[* *]
				NET AMT	\$[* *]

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Origin	Government	Origin	Government
0002	Origin	Government	Origin	Government
0003	Origin	Government	Origin	Government
0004	Origin	Government	Origin	Government
0005	Origin	Government	Origin	Government
1001	Origin	Government	Origin	Government

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	29-FEB-2024	[* *] MURTECH, INC MANN 820 CROMWELL PARK DR, STE J GLEN BURNIE MD 21061-2574 FOB: Origin (Shipping Point)		W56XNH
0002	30-SEP-2024	[* *] (SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)		W56XNH

0003	30-SEP-2024	[* *]	(SAME AS PREVIOUS LOCATION) FOB: Origin (Shipping Point)	W56XNH
0004	POP 22-JAN-2024 TO 30-SEP-2025	N/A	JPM CBRN MEDICAL KEVIN WATTS 110 THOMAS JOHNSON DR FREDERICK MD 21702 240-529-2081 FOB: Destination	W56XNH
0005	POP 22-JAN-2024 TO 30-SEP-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W56XNH
1001	31-JUL-2025	[* *]	MURTECH, INC MANN 820 CROMWELL PARK DR, STE J GLEN BURNIE MD 21061-2574 FOB: Origin (Shipping Point)	W56XNH

ACCOUNTING AND APPROPRIATION DATA

AA: 0212023202420400000665654255 A.0012510.9.1.1 6100.9000021001
COST CODE: A5XAH
AMOUNT: \$[* *]

ACRN	CLIN/SLIN	CIN	AMOUNT
AA	0001	GFEBS001206673700001	\$[* *]

CLAUSES INCORPORATED BY FULL TEXT

52.217-7 OPTION FOR INCREASED QUANTITY--SEPARATELY PRICED LINE ITEM (MAR 1989)

The Government may require the delivery of the numbered line item, identified in the Schedule as an option item, in the quantity and at the price stated in the Schedule. The Contracting Officer may exercise the option by written notice to the Contractor within 30. Delivery of added items shall continue at the same rate that like items are called for under the contract, unless the parties otherwise agree.

(End of clause)

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (JAN 2023)

(a) Definitions. As used in this clause—

“Department of Defense Activity Address Code (DoDAAC)” is a six position code that uniquely identifies a unit, activity, or organization.

“Document type” means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

“Local processing office (LPO)” is the office responsible for payment certification when payment certification is done external to the entitlement system.

“Payment request” and “receiving report” are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(b) Electronic invoicing. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation Supplement (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall—

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.sam.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the “Web Based Training” link on the WAWF home page at <https://wawf.eb.mil/>.

(e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:

(1) Document type. The Contractor shall submit payment requests using the following document type(s):

(i) For cost-type line items, including labor-hour or time-and-materials, submit a cost voucher.

(ii) For fixed price line items—

(A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.

COMBO _____

(B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.

(iii) For customary progress payments based on costs incurred, submit a progress payment request.

(iv) For performance based payments, submit a performance based payment request.

(v) For commercial financing, submit a commercial financing request.

(2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

[Note: The Contractor may use a WAWF "combo" document type to create some combinations of invoice and receiving report in one step.]

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

<i>Field Name in WAWF</i>	<i>Data to be entered in WAWF</i>
Pay Official DoDAAC	[* *]
Issue By DoDAAC	[* *]
Admin DoDAAC**	[* *]
Inspect By DoDAAC	[* *]
Ship To Code	[* *]
Ship From Code	[* *]
Mark For Code	[* *]
Service Approver (DoDAAC)	NA
Service Acceptor (DoDAAC)	NA
Accept at Other DoDAAC	NA
LPO DoDAAC	NA
DCAA Auditor DoDAAC	NA
Other DoDAAC(s)	NA

(4) Payment request. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.

(5) Receiving report. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.

(g) WAWF point of contact.

COR: Kevin W. Watts kevin.w.watts2.civ@army.mil

(1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

N/A

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

Certain identified information has been excluded from this exhibit because it is (i) not material and (ii) is the type of information that the registrant treats as private or confidential. Double asterisks denote omission.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. P00001	3. EFFECTIVE DATE 13-Feb-2024	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE	5. PROJECT NO.(If applicable)		
6. ISSUED BY USA CONTRACTING CMD-APG - W911SR EDGEGWOOD CONTRACTING DIVISION 8456 BRIGADE STREET BLDG E4215 ABERDEEN PROVING GROUND MD 21010-5424	CODE W911SR	7. ADMINISTERED BY (If other than item 6) ACC-APG EDGEGWOOD DIVISION 8456 BRIGADE STREET APG - BAMD 21010-5424	CODE W911SR		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) EMERGENT BIODEFENSE OPERATIONS LANSING L EMERGENT BIODEFENSE 3500 N MARTIN LUTHER KING JR BLVD LANSING MI 48506-2333			9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) <input checked="" type="checkbox"/> 10A. MOD. OF CONTRACT/ORDER NO. W 11SR24F0018 <input checked="" type="checkbox"/> 10B. DATED (SEE ITEM 13) 22-Jan-2024		
CODE 1H0B6	FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS <input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.		
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.217-7, Option for Increased Qty					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 1 copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: mjohn1sr24207 The purpose of this modification is to exercise Option CLIN 0002.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) [**] Vice President, Business Operations	15B. CONTRACTOR/OFFEROR Electronically signed by Clark Baker Reference: I approve this document Date: Feb 13 2024 17:03 MST (Signature of person authorized to sign)		15C. DATE SIGNED 13-FEB-2024	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Brian Mazen 'KO TEL: 520-671-3728 EMAIL: Brian.E.Mazen.civ@army.mil	16B. UNITED STATES OF AMERICA BY MAZEN.BRIAN.E.1387647780 (Signature of Contracting Officer)
EXCEPTION TO SF 30 APPROVED BY OIRM 11-84			30-105-04	16C. DATE SIGNED Digitally signed by MAZEN.BRIAN.E.1387647780 Date: 2024-02-13 17:03:00-05'00	
STANDARD FORM 30 (Rev. 10-83) Prescribed by GSA FAR (48 CFR) 53.243					

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

P00001

The purpose of this modification is as follows:

1. To exercise Option CLIN 0002 in its entirety.
2. Option CLIN 0002 is hereby fully funded.
3. All other terms and conditions remain in full force and effect.

SECTION SF 1449 - CONTINUATION SHEET

SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by [* *] from [* *] to [* *].

The vendor signature required has changed from required to not required.
The number of award copies required 1 has been deleted.

SUPPLIES OR SERVICES AND PRICES

CLIN 0002

The option status has changed from Option to Option Exercised.

SUBCLIN 000201 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000201	Funding to CLIN 0002 FFP PURCHASE REQUEST NUMBER: 0012066737-0002				\$0.00
				NET AMT	\$0.00
	ACRN AA CIN: GFEBS001206673700002				[* *]

ACCOUNTING AND APPROPRIATION

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by [*.*] from [*.*] to [*.*].

SUBCLIN 000201:

Funding on SUBCLIN 000201 is initiated as follows:

ACRN: AA

CIN: GFEBS001206673700002

Acctng Data: 0212023202420400000665654255 A.0012510.9.1.1 6100.9000021001

Increase: [*.*]

Total: [*.*]

Cost Code: A5XAH

INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for SUBCLIN 000201:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	N/A

(End of Summary of Changes)

Certain identified information has been excluded from this exhibit because it is (i) not material and (ii) is the type of information that the registrant treats as private or confidential. Double asterisks denote omission.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES
				1	6
2. AMENDMENT/MODIFICATION NO. P00002	3. EFFECTIVE DATE 21-Mar-2024	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE	5. PROJECT NO.(if applicable)		
6. ISSUED BY USA CONTRACTING CMD-APG - W911SR EDGEGOOD CONTRACTING DIVISION 8456 BRIGADE STREET BLDG E4215 ABERDEEN PROVING GROUND MD 21010-5401	CODE W911SR	7. ADMINISTERED BY (If other than item 6) USA CONTRACTING CMD-APG - W911SR 110 THOMAS JOHNSON DR FREDERICK MD 21702	CODE	W911SR	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) EMERGENT BIODEFENSE OPERATIONS LANSING L EMERGENT BIODEFENSE 3600 N MARTIN LUTHER KING JR BLVD LANSING MI 48805-2933				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				X 10A. MOD. OF CONTRACT/ORDER NO. W911SR24F0016	
				X 10B. DATED (SEE ITEM 13)	
CODE 1HOB6				FACILITY CODE	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.217-7, Option for Increase Qty.					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: mjohn1sr24281 The purpose of this modification is to exercise Option CLIN 0003.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) [**] SVP Products Business 15B.		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Brian Mazen / KO TEL: 502-671-3728 EMAIL: Brian.E.Mazen.civ@army.mil			
CONTRACTOR/OFFEROR [**] [**] (Signature of person authorized to sign)		15C. DATE SIGNED 21-MAR-2024	16B. UNITED STATES OF AMERICA BY MAZEN.BRIAN.E.1387647780 (Signature of Contracting Officer)	16C. DATE SIGNED Digitally signed by MAZEN.BRIAN.E.1387647780 Date: 2024.03.21 10:45:29 -04'00'	
EXCEPTION TO SF 30 APPROVED BY OIRM 11-84		30-105-04	STANDARD FORM 30 (Rev. 10-83) Prescribed by GSA FAR (48 CFR) 53.243		

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

P00002

The purpose of this modification is as follows:

1. To exercise Option CLIN 0003 in its entirety
2. Increase CLIN 0003 quantity by [**] From [**] to [**]
3. Fully fund Option CLIN 0003 in the amount of [**]
4. Except as provided herein, all terms and conditions remain unchanged.

SECTION SF 1449 - CONTINUATION SHEET

SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by [**] from [**] to [**].

The 'mail invoices to the address shown in block' field has changed from See Item 18 to 1.

SUPPLIES OR SERVICES AND PRICES

CLIN 0003

The pricing detail quantity has increased by [**] from [**] to [**].

The option status has changed from Option to Option Exercised.

The total cost of this line item has increased by [**] from [**] to [**].

SUBCLIN 000301 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000301	Funding to CLIN 0003 FFP PURCHASE REQUEST NUMBER: 0012099788-0001				\$0.00

	NET AMT	\$0.00
ACRN AB CIN: GFEBS001209978800001		[**]

ACCOUNTING AND APPROPRIATION

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by [**] from [**] to [**].

SUBCLIN 000301:

Funding on SUBCLIN 000301 is initiated as follows:

ACRN: AB

CIN: GFEBS001209978800001

Acctng Data: 0212023202420400000665654260 A.0012510.9.1.5.1 6100.0153021001

Increase: [**]

Total: [**]

Cost Code: A5XAH

DELIVERIES AND PERFORMANCE

The following Delivery Schedule item for CLIN 0003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2024	[**]	MURTECH, INC MANN 820 CROMWELL PARK DR, STE J GLEN BURNIE MD 21061-2574 FOB: Origin (Shipping Point)	W56XNH

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
30-SEP-2024	[**]	MURTECH, INC MANN 820 CROMWELL PARK DR, STE J GLEN BURNIE MD 21061-2574 FOB: Origin (Shipping Point)	W56XNH

INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for SUBCLIN 000301:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	N/A

The following have been modified:

252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (JAN 2023)

(a) Definitions. As used in this clause—

“Department of Defense Activity Address Code (DoDAAC)” is a six position code that uniquely identifies a unit, activity, or organization.

“Document type” means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

“Local processing office (LPO)” is the office responsible for payment certification when payment certification is done external to the entitlement system.

“Payment request” and “receiving report” are defined in the clause at 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(b) Electronic invoicing. The WAWF system provides the method to electronically process vendor payment requests and receiving reports, as authorized by Defense Federal Acquisition Regulation Supplement (DFARS) 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall—

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.sam.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the “Web Based Training” link on the WAWF home page at <https://wawf.eb.mil/>.

(e) WAWF methods of document submission. Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor shall use the following information when submitting payment requests and receiving reports in WAWF for this contract or task or delivery order:

(1) Document type. The Contractor shall submit payment requests using the following document type(s):

(i) For cost-type line items, including labor-hour or time-and-materials, submit a cost voucher.

(ii) For fixed price line items—

(A) That require shipment of a deliverable, submit the invoice and receiving report specified by the Contracting Officer.

COMBO _____

(B) For services that do not require shipment of a deliverable, submit either the Invoice 2in1, which meets the requirements for the invoice and receiving report, or the applicable invoice and receiving report, as specified by the Contracting Officer.

(iii) For customary progress payments based on costs incurred, submit a progress payment request.

(iv) For performance based payments, submit a performance based payment request.

(v) For commercial financing, submit a commercial financing request.

(2) Fast Pay requests are only permitted when Federal Acquisition Regulation (FAR) 52.213-1 is included in the contract.

[Note: The Contractor may use a WAWF "combo" document type to create some combinations of invoice and receiving report in one step.]

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	[**]
Issue By DoDAAC	[**]
Admin DoDAAC**	[**]
Inspect By DoDAAC	[**]
Ship To Code	[**]
Ship From Code	[**]
Mark For Code	[**]
Service Approver (DoDAAC)	[**]
Service Acceptor (DoDAAC)	[**]
Accept at Other DoDAAC	NA

LPO DoDAAC	NA
DCAA Auditor DoDAAC	NA
Other DoDAAC(s)	NA

(4) Payment request. The Contractor shall ensure a payment request includes documentation appropriate to the type of payment request in accordance with the payment clause, contract financing clause, or Federal Acquisition Regulation 52.216-7, Allowable Cost and Payment, as applicable.

(5) Receiving report. The Contractor shall ensure a receiving report meets the requirements of DFARS Appendix F.

(g) WAWF point of contact.

COR: Kevin W. Watts kevin.w.watts2.civ@army.mil

(1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

N/A

(2) Contact the WAWF helpdesk at 866-618-5988, if assistance is needed.

(End of clause)

(End of Summary of Changes)

CERTIFICATION

I, Joseph C. Papa, certify that:

- (1) I have reviewed this Quarterly Report on Form 10-Q of Emergent BioSolutions Inc.;
- (2) Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- (3) Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- (4) The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- (5) The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information, and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 1, 2024

/s/Joseph C. Papa

Joseph C. Papa

President and Chief Executive Officer

CERTIFICATION

I, Richard S. Lindahl, certify that:

- (1) I have reviewed this Quarterly Report on Form 10-Q of Emergent BioSolutions Inc.;
- (2) Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- (3) Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- (4) The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- (5) The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information, and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 1, 2024

/s/RICHARD S. LINDAHL
Richard S. Lindahl
Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Emergent BioSolutions Inc. (the "Company") for the period ended March 31, 2024 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Joseph C. Papa, President and Chief Executive Officer of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 1, 2024

/s/Joseph C. Papa

Joseph C. Papa

President and Chief Executive Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Emergent BioSolutions Inc. (the "Company") for the period ended March 31, 2024 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Richard S. Lindahl, Chief Financial Officer of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 1, 2024

/s/RICHARD S. LINDAHL
Richard S. Lindahl
Chief Financial Officer